State of Ohio Bureau of Workers' Compensation

Unpaid Loss & LAE as of June 30, 2012
(Based on Data Evaluated as of June 30, 2012)

Volume VI – Detailed Analysis Exhibits
Coal-Workers Pneumoconiosis Fund

August 24, 2012

Deloitte Consulting LLP

Table of Contents

Volume I – Report and Summary Exhibits

Introduction 1
- Purpose and Scope 1
- BWC Background 1
- Limitations 7
- Distribution and Use 8

Executive Summary 10
- Summary of Findings 10
- Relevant Comments 14

Executive Summary Exhibits 25

Actuarial Analysis Overview 51
- Actuarial Procedures 51
- Actuarial Methodologies 62

Data 65
- Information and Data Provided 65
- Adjustments to Data 66

Loss Reserve Dislosures 72

Detailed Analysis Exhibit Descriptions 73

Segment Summary Exhibits 82

Volume II - Detailed Analysis Exhibits

Private Employers ("PA") ..... Section 1

Volume III - Detailed Analysis Exhibits

Public Employers - Taxing Districts ("PEC") ..... Section 2

Volume IV - Detailed Analysis Exhibits

Public Employers - State Agencies ("PES") ..... Section 3

Volume V - Detailed Analysis Exhibits

Disabled Workers Relief Fund ("DWRF") ..... Section 4

Self-Insuring Employers Guaranty Fund ("SIEGF") ..... Section 5

Public Work-Relief Employees' Compensation Fund ("PWRE") ..... Section 6

Marine Industry Fund ("MIF") ..... Section 7

Volume VI - Detailed Analysis Exhibits

Coal-Workers Pneumoconiosis Fund ("CWPF") ..... Section 8

Detailed Analysis Exhibit Descriptions

The following documents the detailed exhibits that display Deloitte Consulting's actuarial analysis of the SIF and other Funds of the BWC. The exhibits are segregated into the following Sections:

- Section 1 – Private Employers in the State Insurance Fund;
- Section 2 – Public Employer Taxing Districts in the State Insurance Fund;
- Section 3 – Public Employer State Agencies in the State Insurance Fund;
- Section 4 – Disabled Workers' Relief Fund;
- Section 5 – Self-Insuring Employers Guaranty Fund;
- Section 6 – Public Work-Relief Employees' Compensation Fund;
- Section 7 – Marine Industry Fund; and
- Section 8 – Coal-Workers Pneumoconiosis Fund.

Please note that the Administrative Cost Fund and Health Partnership Program exhibits are included in the Summary Exhibits.

Section 1-3 (PA, PEC, and PES) Exhibits

Within each Section for PA, PEC, and PES there exists 9 Exhibits that display separate analyses for each type of loss. Each type of loss corresponds to the Exhibits as follows:

- Exhibit 1 – Medical Only
- Exhibit 2 – Medical On Lost Time
- Exhibit 3 – Compensation – Permanent Total Disability
- Exhibit 4 – Compensation – Death
- Exhibit 5 – Compensation – Temporary Total, Temporary Partial, Change of Occupation, Wage Loss, Living Maintenance Wage Loss, Living Maintenance
- Exhibit 6 – Compensation – % Permanent Partial & Permanent Partial
- Exhibit 7 – Compensation – Lump Sum Settlements
- Exhibit 8 – Compensation – Lump Sum Advancements
- Exhibit 9 – Compensation – Additional Awards

Within each Exhibit exists multiple Sheets. These Sheets are described below.

Section, Exhibit, Sheet 1: Summary of Unpaid Loss
This sheet displays the calculation of the undiscounted and discounted unpaid losses.

Section, Exhibit, Sheet 2: Fiscal Year Payment Projections
This sheet displays future annual loss payments for fiscal years ending 2013 and subsequent by accident year associated with claims occurring on June 30, 2012 and prior. The future annual payments are determined by applying an estimated payout pattern, based on Deloitte Consulting's selected paid loss development factors, to the unpaid loss estimates as of June 30, 2012 for each accident year.

Section, Exhibit, Sheet 3: Selection of Ultimate Loss & ALAE
This sheet displays Deloitte Consulting's selected ultimate loss for each accident year based on projected ultimate losses from Sheets 4-12.

Section, Exhibit, Sheets 4-12: Projected Ultimate Losses
These sheets project limited ultimate losses using different actuarial methodologies by accident year:

- Sheet 4 – Paid Loss Development Method;
- Sheet 5 – Incurred Loss Development Method;
- Sheet 6 – Paid Bornhuetter-Ferguson Method;
- Sheet 7 – Incurred Bornhuetter-Ferguson Method;
- Sheet 8 – Cumulative Paid Frequency Severity Method;
- Sheet 9 – Paid Incremental Frequency Severity Accident Year Development Method;
- Sheet 10 – Paid Incremental Trended Frequency Severity Development Method;
- Sheet 11 – Paid Incremental Frequency Severity Calendar Year Development Method; and
- Sheet 12 – Incremental Index Payment Method (Compensation only).

A description of these methodologies can be found under "Actuarial Methodologies" under the "Overview of Actuarial Analysis" section in the Report.

Section, Exhibit, Sheet 13: Selection of Ultimate Claim Counts
This sheet projects ultimate claim counts by accident year.

Section, Exhibit, Sheet 14: Diagnostic Exhibit
This sheet displays ultimate claim counts, ultimate frequency, ultimate severity, and loss rate diagnostics by accident year.

Section, Exhibit, Sheet 15: Actual Versus Expected Loss Payments
This sheet compares actual paid loss with expected paid loss emergence since the prior fiscal year-end.

Section, Exhibit, Sheet 16: Actual Versus Expected Reported Losses
Similar to the previous exhibit, this sheet compares actual incurred loss with expected incurred loss emergence since the prior fiscal year-end.

Section, Exhibit, Sheet 17: Actual Versus Expected Reported Claim Counts
Similar to the previous exhibit, this sheet compares actual reported claim counts with expected claim count emergence since the prior fiscal year-end.

Section, Exhibit, Sheet 18: Discount Factors
This sheet displays the calculation of the discount factor used to determine the discounted unpaid loss in Sheet 1.

Section, Exhibit, Sheet 19: Initial Expected Loss Rate Selection
This sheet displays the selection of the initial expected loss rates used in the Bornhuetter Ferguson methods.

Section, Exhibit, Sheet 20: Interpolated Accident Year Development Factors
The accident year development factors selected on Sheets 23 – 38 are interpolated to the current evaluation age on this sheet.

Section, Exhibit, Sheet 21: Interpolated Accident Year Index Factors
For compensation analyses, the accident year index factors selected on Sheet 38 are interpolated to the current evaluation age on this sheet.

Section, Exhibit, Sheet 22: Estimated Payments
This sheet displays the determination of estimated payments for the remaining portion of the current fiscal year by applying an estimated payout pattern to the unpaid loss estimate as of the evaluation date.

Section, Exhibit, Sheets 23-38: Triangles and Various Diagnostics
These sheets display various diagnostic exhibits and the loss and claim count triangles supporting the projected ultimate losses from the various methodologies.

Section, Exhibit, Sheet 39: Unpaid Loss Estimate for Accident Years 1976 and Prior
This sheet displays Deloitte Consulting's selected unpaid loss estimate for accident years 1976 and prior based on projected unpaid losses using several methodologies determined on Sheets 40 and 41.

Section, Exhibit, Sheet 40: Exponential Curve Fit of Unpaid Loss for Accident Years 1976 and Prior
This sheet calculates estimates of unpaid loss for accident years 1976 and prior using exponential curve fits of calendar year paid losses for all accident years 1976 and prior combined.

Section, Exhibit, Sheets 41 and 42: Incremental Development Method
These sheets calculate an estimate of unpaid loss for accident years 1976 and prior using an incremental development method, which relies on historical incremental development factors selected in Sheet 46.

Section, Exhibit, Sheet 43: Paid Tail Factor Selection
This sheet supports the selected paid tail development factor used to determine ultimate loss estimates for accident years 1977 and subsequent based on various curve fits and BWC's incremental data back to 1954.

Section, Exhibit, Sheet 44: Fitted Paid Loss Development Factors
This sheet fits age-to-age paid loss development factors to Weibull and inverse power curves to assist in the selection of the paid tail development factor found in Sheet 43.

Section, Exhibit, Sheet 45: Incremental Decay Method
This sheet determines paid tail development factors at various ages using incremental development factors selected based on historical development data from June 30, 2002 through June 30, 2012 for accident years back to 1954 found in Sheet 46. These tail factors are used to support the selected paid tail development factors found in Sheet 43.

Section, Exhibit, Sheet 46: Incremental Paid Loss Triangle
This sheet displays the historical incremental paid loss development for accident years 1954 and subsequent as well as the selected incremental development factors used in Sheets 42, 45, and 48.

Section, Exhibit, Sheet 47: Fitted Incurred Loss Development Factors
This sheet fits age-to-age incurred loss development factors to Weibull and inverse power curves to assist in the selection of the incurred tail development factor.

Section, Exhibit, Sheet 48: Fitted Incremental Decay Loss Development Factors
This sheet fits age-to-age incremental development factors to Weibull and inverse power curves to assist in the selection of the paid tail development factor found in Sheet 43.

Section 4 (DWRF) Exhibits

Within the DWRF Section there exists three Exhibits that display separate analyses for each type of loss. Each type of loss corresponds to the Exhibits as follows:

- Exhibit 1 – Private Employers
- Exhibit 2 – Public Employers – Taxing Districts
- Exhibit 3 – Public Employers – State Agencies

Within each Exhibit exists multiple Sheets. These Sheets are described below.

Section 4, Exhibit, Sheet 1: Summary of Unpaid Loss
This sheet displays the calculation of the undiscounted and discounted unpaid losses.

Section 4, Exhibit, Sheet 2: Fiscal Year Payment Projections
This sheet displays future annual loss payments for fiscal years ending 2013 and subsequent by accident year associated with claims occurring on June 30, 2012 and prior. The future annual payments are determined by applying an estimated payout pattern, based on Deloitte Consulting's selected paid loss development factors, to the unpaid loss estimates as of June 30, 2012 for each accident year.

Section 4, Exhibit, Sheet 3: Selection of Ultimate Loss & ALAE
This sheet displays Deloitte Consulting's selected ultimate loss for each accident year based on projected ultimate losses from Sheets 4-11.

Section 4, Exhibit, Sheets 4-9: Projected Ultimate Losses
These sheets project limited ultimate losses using different actuarial methodologies by accident year:

- Sheet 4 – Paid Loss Development Method;
- Sheet 5 – Incurred Loss Development Method;
- Sheet 6 – Paid Bornhuetter-Ferguson Method;
- Sheet 7 – Incurred Bornhuetter-Ferguson Method;
- Sheet 8 – Cumulative Paid Frequency Severity Method;
- Sheet 9 – Paid Incremental Frequency Severity Accident Year Development Method;

A description of these methodologies can be found under "Actuarial Methodologies" under the "Overview of Actuarial Analysis" section in the Report.

Section 4, Exhibit, Sheet 10: Selection of Ultimate Claim Counts
This sheet projects ultimate claim counts by accident year.

Section 4, Exhibit, Sheet 11: Diagnostic Exhibit
This sheet displays ultimate claim counts, ultimate frequency, ultimate severity, and loss rate diagnostics by accident year.

Section 4, Exhibit, Sheet 12: Actual Versus Expected Loss Payments
This sheet compares actual paid loss with expected paid loss emergence since the prior fiscal year-end.

Section 4, Exhibit, Sheet 13: Discount Factors
This sheet displays the calculation of the discount factor used to determine the discounted unpaid loss in Sheet 1.

Section 4, Exhibit, Sheet 14: Initial Expected Loss Rate Selection
This sheet displays the selection of the initial expected loss rates used in the Bornhuetter Ferguson methods.

Section 4, Exhibit, Sheet 15: Interpolated Accident Year Development Factors
The accident year development factors selected on Sheets 17 – 24 are interpolated to the current evaluation age on this sheet.

Section 4, Exhibit, Sheet 16: Estimated Payments
This sheet displays the determination of estimated payments for the remaining portion of the current fiscal year by applying an estimated payout pattern to the unpaid loss estimate as of the evaluation date.

Section 4, Exhibit, Sheets 17-24: Triangles and Various Diagnostics
These sheets display various diagnostic exhibits and the loss and claim count triangles supporting the projected ultimate losses from the various methodologies.

Section 4, Exhibit, Sheet 25: Unpaid Loss Estimate for Accident Years 1976 and Prior
This sheet displays Deloitte Consulting's selected unpaid loss estimate for accident years 1976 and prior based on projected unpaid losses using several methodologies determined on Sheets 26 and 27.

Section 4, Exhibit, Sheet 26: Exponential Curve Fit of Unpaid Loss for Accident Years 1976 and Prior
This sheet calculates estimates of unpaid loss for accident years 1976 and prior using exponential curve fits of calendar year paid losses for all accident years 1976 and prior combined.

Section 4, Exhibit, Sheets 27 and 28: Incremental Development Method
These sheets calculate an estimate of unpaid loss for accident years 1976 and prior using an incremental development method, which relies on historical incremental development factors selected in Sheet 31.

Section 4, Exhibit, Sheet 29: Paid Tail Factor Selection
This sheet supports the selected paid tail development factor used to determine ultimate loss estimates for accident years 1977 and subsequent based on various curve fits and BWC's incremental data back to 1954.

Section 4, Exhibit, Sheet 30: Fitted Paid Loss Development Factors
This sheet fits age-to-age paid loss development factors to Weibull and inverse power curves to assist in the selection of the paid tail development factor found in Sheet 29.

Section 4, Exhibit, Sheet 31: Incremental Decay Method
This sheet determines paid tail development factors at various ages using incremental development factors selected based on historical development data from June 30, 2002 through June 30, 2012 for accident years back to 1954 found in Sheet 32. These tail factors are used to support the selected paid tail development factors found in Sheet 29.

Section 4, Exhibit, Sheet 32: Incremental Paid Loss Triangle
This sheet displays the historical incremental paid loss development for accident years 1954 and subsequent as well as the selected incremental development factors used in Sheets 28 and 31.

Section 4, Exhibit, Sheet 33: Fitted Incremental Decay Loss Development Factors
This sheet fits age-to-age incremental development factors to Weibull and inverse power curves to assist in the selection of the paid tail development factor found in Sheet 29.

Section 5 (SIS and SIEGF) Exhibits

The SIS and SIEGF unpaid loss estimates are determined together in Section 5. The following describes each Exhibit and Sheet within Section 5.

Section 5, Exhibit 1, Sheet 1: Summary of Self-Insured Unpaid Loss
This sheet displays a summary of the SIS and SIEGF unpaid loss estimates as well as the SIEGF DWRF.

Section 5, Exhibit 1, Sheet 2: Future Default Unpaid Loss by Fund
This sheet separates the unpaid loss estimate associated with future defaults between the SIS and SIEGF.

Section 5, Exhibit 1, Sheet 3: Known Default Unpaid Loss by Fund
This sheet separates the unpaid loss estimate associated with known defaults between the SIS and SIEGF.

Section 5, Exhibit 1, Sheet 4: Estimation of Bond Recovery Rate
This sheet estimates the bond recovery rate associated with the SIS.

Section 5, Exhibit 2, Sheet 1: Discounted Unpaid Loss – Known Defaults
This sheet displays the calculation of the undiscounted and discounted unpaid losses.

Section 5, Exhibit 2, Sheet 2: Selection of Ultimate Loss
This sheet displays Deloitte Consulting's selected ultimate loss for each accident year based on projected ultimate losses.

Section 5, Exhibit 2, Sheets 3: Paid Bornhuetter-Ferguson Method
These sheets project ultimate losses using the Paid Bornhuetter-Ferguson Method.

Section 5, Exhibit 2, Sheet 4: Calculation of Initial Expected Loss Rates
This sheet displays the selection of the initial expected loss rates used in the Bornhuetter Ferguson method.

Section 5, Exhibit 2, Sheets 5: Paid Loss Development Method
These sheets project ultimate losses using the Paid Bornhuetter-Ferguson Method.

Section 5, Exhibit 2, Sheet 6: Paid Loss Triangles
This sheet displays the default year paid loss triangle.

Section 5, Exhibit 2, Sheet 7: Interpolated Accident Year Development Factors
The accident year development factors selected on Sheet 5 are interpolated to the current evaluation age on this sheet.

Section 5, Exhibit 2, Sheet 8: Estimated Payments
This sheet displays the determination of estimated payments for the remaining portion of the current fiscal year by applying an estimated payout pattern to the unpaid loss estimate as of the evaluation date.

Section 5, Exhibit 2, Sheet 9: Discount Factors
This sheet displays the calculation of the discount factor used to determine the discounted unpaid loss in Sheet 1.

Section 5, Exhibit 3, Sheet 1: Discounted Unpaid loss – Future Defaults
This sheet displays the calculation of the unpaid loss estimate associated with future defaults.

Section 5, Exhibit 3, Sheet 2: Selection of Lag Pattern
This sheet displays the determination of the default year by accident/injury year lag pattern.

Section 5, Exhibit 4, Sheets 1 and 2: Estimate of Unpaid SIEGF
These sheets display the determination of the SIEGF DWRF associated with known defaults.

Section 6-7 (PWRE and MIF) Exhibits

For both PWRE and MIF there exists 4 Exhibits that display separate analyses for each type of loss. Each type of loss corresponds to the Exhibits as follows:

- Exhibit 1 – Total
- Exhibit 2 – Medical
- Exhibit 3 – Compensation – Permanent Total Disability
- Exhibit 4 – Compensation – Death
- Exhibit 5 – Compensation – Other

Within each Exhibit exists multiple Sheets. These Sheets are described below.

Section, Exhibit, Sheet 1: Summary of Unpaid Loss
This sheet displays the calculation of the undiscounted and discounted unpaid losses.

Section, Exhibit, Sheet 2: Fiscal Year Payment Projections
This sheet displays future annual loss payments for fiscal years ending 2013 and subsequent by accident year associated with claims occurring on June 30, 2012 and prior. The future annual payments are determined by applying an estimated payout pattern, based on Deloitte Consulting's selected paid loss development factors, to the unpaid loss estimates as of June 30, 2012 for each accident year.

Section, Exhibit, Sheet 3: Selection of Ultimate Loss
This sheet displays Deloitte Consulting's selected ultimate loss for each accident year based on projected ultimate losses from Sheets 4-7.

Section, Exhibit, Sheets 4-7: Projected Ultimate Losses
These sheets project limited ultimate losses using different actuarial methodologies by accident year:

- Sheet 4 – Paid Loss Development Method;
- Sheet 5 – Incurred Loss Development Method;
- Sheet 6 – Paid Bornhuetter-Ferguson Method;
- Sheet 7 – Incurred Bornhuetter-Ferguson Method;

A description of these methodologies can be found under "Actuarial Methodologies" under the "Overview of Actuarial Analysis" section in the Report.

Section, Exhibit, Sheet 8: Actual Versus Expected Loss Payments
This sheet compares actual paid loss with expected paid loss emergence since the prior fiscal year-end.

Section, Exhibit, Sheet 9: Actual Versus Expected Reported Losses
Similar to the previous exhibit, this sheet compares actual incurred loss with expected incurred loss emergence since the prior fiscal year-end.

Section, Exhibit, Sheet 10: Discount Factors
This sheet displays the calculation of the discount factor used to determine the discounted unpaid loss in Sheet 1.

Section, Exhibit, Sheet 11: Initial Expected Loss Rate Selection
This sheet displays the selection of the initial expected loss rates used in the Bornhuetter Ferguson methods.

Section, Exhibit, Sheet 12: Interpolated Accident Year Development Factors
The accident year development factors selected on Sheets 14 – 16 are interpolated to the current evaluation age on this sheet.

Section, Exhibit, Sheet 13: Estimated Payments
This sheet displays the determination of estimated payments for the remaining portion of the current fiscal year by applying an estimated payout pattern to the unpaid loss estimate as of the evaluation date.

Section, Exhibit, Sheets 14-16: Triangles and Various Diagnostics
These sheets display paid loss, incurred loss, and case reserve triangles supporting the projected ultimate losses from the various methodologies.

Section, Exhibit, Sheet 17: Unpaid Loss Estimate for Accident Years 1976 and Prior
This sheet displays Deloitte Consulting's selected unpaid loss estimate for accident years 1976 and prior based on projected unpaid losses.

Section, Exhibit, Sheet 18: Exponential Curve Fit of Unpaid Loss for Accident Years 1976 and Prior
This sheet calculates estimates of unpaid loss for accident years 1976 and prior using exponential curve fits of calendar year paid losses for all accident years 1976 and prior combined.

Section 8 (CWPF) Exhibits

The following describes each of the Sheets found in Section 8 for CWPF:

Section 8, Roll Forward: Projected Unpaid Loss
The Roll Forward sheets show the projected CWPF unpaid loss liability as of June 30, 2012.

Section 8, Exhibit 1: Summary of Unpaid Loss
Displays the estimated unpaid loss liability as of December 31, 2011

Section 8, Exhibit 2: Summary of claims currently receiving benefits
Exhibit 2 displays the calculation of the indemnity and medical unpaid losses for miner claimants and their dependents and survivors of coal miners that are currently receiving federal benefits. The nominal indemnity unpaid losses are calculated on a claim by claim basis based on the claimant's age, estimated monthly benefit, and mortality assumptions. The discounted indemnity unpaid losses are calculated by applying the discount factor using a 4.0% annual rate to the nominal unpaid losses. The nominal and discounted medical unpaid losses are calculated for the miner claims by assuming that the current year medical costs will be $6,000 per claim and assuming these medical costs will increase by 6% per year.

Section 8, Exhibit 3, Sheet 1: Summary of Unpaid Losses for Pending & IBNR Claims, Claim Development Method using Department of Labor Data for Ohio
Exhibit 3 displays the calculation of the unpaid losses for pending and IBNR claims. Projected pending and IBNR claims are based on the Department of Labor claim data for Ohio. The average cost per entitled claim is based on the average cost per entitled claim as calculated in the method using Ohio Employee Survey data.

Section 8, Exhibit 3, Sheets 2 through 7: Projected Pending & IBNR Future Claims, Claim Development Method using Department of Labor Data for Ohio
These sheets show the detail in using the Department of Labor claim data for Ohio to estimate the projected pending and IBNR claims. Projected pending and IBNR claims are based on the projected claims filings and the ultimate entitlement ratios.

Section 8, Exhibit 4: Calculation of Liability for Terminated Miners, Method using Ohio Employee Survey Data
This exhibit uses the Ohio Employee Survey Data to project pending and IBNR claims. Projected pending and IBNR claims are based off the historical employee terminations and assumptions around the percentage of terminated employees who will be entitled to FBL benefits, and a factor to reflect survivor claims. The average cost per entitled claim is based on a benefits calculation using specific entitlement ages and reflecting the percentage of miners who will live to each entitlement age from their current age. The benefit calculation details are provided.

Section 8, Exhibit 5: Calculation of Liability for Active Miners, Method using Ohio Employee Survey Data Method
This exhibit uses the Ohio Employee Survey Data to project the active miner liability. Projected active miner claims are based off the current employee data and assumptions around percentage of active employees who will be entitled to FBL benefits, and a factor to reflect survivor claims. The average cost per entitled claim is based on a benefits calculation using specific entitlement ages and reflecting the percentage of miners who will live to each entitlement age from their current average age. The benefit calculation details are provided.

Section 8, Exhibit 6, Sheet 1: Table of Monthly Black Lung Benefit Rates
Shows the historical FBL indemnity benefit rates from the U.S. Department of Labor

Section 8, Exhibit 6, Sheet 2: Average Annual Medical Costs per Entitled Claim
Shows the historical medical costs per entitled claim

Section 8, Exhibit 7: Benefit calculation detail for claims currently receiving benefits
Exhibit 7 display the details underlying Exhibit 2

Section 8, Exhibit 8: Mortality Tables
Exhibit 8 displays the mortality tables used in our review

Section 8A
The exhibits for Section 8A are similar to the exhibits for Section 8 but pertain to the unpaid loss liability as of December 31, 2012

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
PROJECTED UNPAID LOSS AS OF JUNE 30, 2012

		LOW	POINT	HIGH
	NOMINAL UNPAID LOSSES AS OF 12/31/11			
(1)	AWARDED		19,758,303	
(2)	PENDING, IBNR AND ACTIVE MINERS	276,328,307	441,110,548	605,892,790
	AWARDED CLAIM PAYMENTS FROM 12/31/11 TO 6/30/12			
(3)	ACTUAL		(215,994)	
	LOSS TREND AND MORTALITY ADJUSTMENTS TO 6/30/12			
(4)	PENDING, IBNR AND ACTIVE MINERS	875,914	1,429,781	1,983,648
	PROJECTED NOMINAL UNPAID LOSSES			
(5)	AWARDED		19,542,309	
(6)	PENDING, IBNR AND ACTIVE MINERS	277,204,220	442,540,329	607,876,438
	DISCOUNT FACTOR			
(7)	AWARDED		63.7%	
(8)	PENDING, IBNR AND ACTIVE MINERS		28.1%	
	PROJECTED DISCOUNTED UNPAID LOSSES AS OF 6/30/12			
(9)	AWARDED		12,443,179	
(10)	PENDING, IBNR AND ACTIVE MINERS	77,994,554	124,513,745	171,032,937
(11)	**TOTAL (FULL YEAR DISCOUNT)**	**90,437,733**	**136,956,925**	**183,476,116**
(12)	HALF YEAR DISCOUNT ADJUSTMENT		1.02	
(13)	**TOTAL**	**92,228,753**	**139,669,206**	**187,109,659**

Note: Active miner is 100% of the liability (e.g. not pro-rated for years of service)

(1) SECTION 8, EXHIBIT 1, SHEET 1, ROW (1)
(2) SECTION 8, EXHIBIT 1, SHEET 1, ROW (4) + ROW (5)
(3) DIFFERENCE FROM 12/31/11 TO 12/31/12 OF NOMINAL UNPAID LOSS ESTIMATE FOR AWARDED CLAIMS MULTIPLIED BY 50%; SECTION 8, EXHIBIT 1, SHEET 1
(4) DIFFERENCE FROM 12/31/11 TO 12/31/12 OF NOMINAL UNPAID LOSS ESTIMATE FOR PENDING, IBNR, AND ACTIVE CLAIMS MULTIPLIED BY 50%; SECTION 8, EXHIBIT 1, SHEET 1
(5) (1) + (3)
(6) (2) + (4)
(7) BASED ON THE RATIO OF DISCOUNTED TO NOMINAL AWARDED UNPAID LOSS AS OF 12/31/11; SECTION 8, EXHIBIT 1, SHEET 1
(8) BASED ON THE RATIO OF DISCOUNTED TO NOMINAL PRENDING, IBNR AND ACTIVE MINER UNPAID LOSS AS OF 12/31/11; SECTION 8, EXHIBIT 1, SHEET 1
(9) (5) * (7)
(10) (6) * (8)
(11) (9) + (10)
(12) PAYMENTS ASSUMED TO BE MADE AT THE MIDDLE OF EACH YEAR; =1.04^.5
(13) = (12) * (13)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SUMMARY OF UNPAID LOSSES

		NOMINAL			DISCOUNTED		
		LOW	POINT	HIGH	LOW	POINT	HIGH
(1)	**AWARDED CLAIMS**		**19,758,303**			**12,580,709**	
	PENDING & IBNR CLAIMS						
(2)	OH DEPT. OF LABOR DATA METHOD	10,128,727	15,584,184	21,039,642	2,700,364	4,150,821	5,601,277
(3)	OH EMPLOYEE SURVEY DATA METHOD	262,671,453	328,773,453	394,875,453	75,418,318	94,273,233	113,128,148
(4)	**SELECTED PENDING & IBNR CLAIM**	**73,264,409**	**187,340,455**	**301,416,501**	**20,879,852**	**53,563,141**	**86,246,430**
	ACTIVE MINERS						
(5)	**BASED ON OH EMPLOYEEE SURVEY DATA**	**203,063,898**	**253,770,093**	**304,476,289**	**56,566,625**	**70,548,319**	**84,530,013**
(6)	**TOTAL UNPAID LOSSES (FULL YEAR DISCOUNT)**	**296,086,610**	**460,868,851**	**625,651,092**	**90,027,186**	**136,692,169**	**183,357,152**
(7)	**HALF YEAR DISCOUNT ADJUSTMENT**					1.02	
(8)	**TOTAL UNPAID LOSSES**				**91,810,076**	**139,399,208**	**186,988,340**

Note: Active miner is 100% of the liability (e.g. not pro-rated for years of service)

(1) SECTION 8, EXHIBIT 2, SHEET 1, COL. (12) & (13)
(2) SECTION 8, EXHIBIT 3, SHEET 1, SUM OF ROW (J) FOR NOMINAL & SUM OF ROW (K) FOR DISCOUNTED
(3) LOW ESTIMATE FROM SECTION 8, EXHIBIT 4, SHEET 1A, COL. (14) & (14A)
HIGH ESTIMATE FROM SECTION 8, EXHIBIT 4, SHEET 1B, COL. (14) & (14A)
(4) SELECTED BY DELOITTE; LOW = 75% * (2) + 25% * (3); HIGH = 25% * (2) + 75% * (3)
(5) LOW ESTIMATES FROM SECTION 8, EXHIBIT 5, SHEET 1A, COL. (14) & (14A)
HIGH ESTIMATE FROM SECTION 8, EXHIBIT 5, SHEET 1B, COL. (14) & (14A)
(6) = (1) + (4) + (5)
(7) PAYMENTS ASSUMED TO BE MADE AT THE MIDDLE OF EACH YEAR; =1.04^.5
(8) = (6) * (7)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
SUMMARY OF CLAIMS CURRENTLY RECEIVING BENEFITS
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 2
SHEET 1

							ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	00-539873	IW	10/1/2000	10/16/2000	12/13/1943		98,081	74,350	99,252	72,429	197,333	146,779
2	04-801185	IW	1/9/2004	1/15/2004	7/31/1934		57,091	47,906	52,714	43,432	109,805	91,338
3	08-805748	IW	1/31/2008	2/4/2008	2/11/1947		116,818	85,158	122,590	85,271	239,408	170,430
4	08-873076	IW	11/4/2008	11/10/2008	2/5/1947		116,818	85,158	122,590	85,271	239,408	170,430
5	10-866075	IW	12/17/2010	12/23/2010	1/2/1953		164,944	110,224	187,938	117,307	352,881	227,531
6	97-579377	IW	9/1/1997	10/28/1997	10/17/1943		98,081	74,350	99,252	72,429	197,333	146,779
7	OD175963	IW	11/1/1979	12/4/1979	3/15/1917		16,259	15,630	13,397	12,855	29,656	28,485
8	OD192577	IW	7/1/1987	8/18/1987	6/30/1934		53,620	45,434	49,086	40,907	102,707	86,341
9	OD197158	IW	3/1/1989	3/9/1989	1/27/1942		87,390	67,891	86,461	65,003	173,850	132,894
10	OD223258	IW	11/1/1992	11/30/1992	7/17/1932		50,379	43,093	45,740	38,539	96,118	81,631
11	OD237132	IW	4/1/1993	3/23/1995	10/5/1942		92,582	71,057	92,622	68,619	185,203	139,677
12	10-813915	IW	9/1/2009	3/30/2010	6/6/1942		87,390	67,891	86,461	65,003	173,850	132,894
13	01-807428	IW + Dep 1	2/1/2001	3/5/2001	6/28/1931	12/31/1926	98,760	81,473	39,776	34,221	138,537	115,694
14	02-819832	IW + Dep 1	4/26/2002	4/30/2002	7/16/1945	7/12/1946	305,248	190,583	114,183	80,740	419,431	271,323
15	02-855721	IW + Dep 1	9/13/2002	9/26/2002	4/23/1958	4/14/1962	611,846	292,949	265,441	149,631	877,287	442,580
16	03-805433	IW + Dep 1	1/24/2003	2/10/2003	12/10/1951	12/14/1950	386,634	224,392	175,149	111,440	561,783	335,832
17	03-809998	IW + Dep 1	2/26/2003	3/3/2003	5/4/1941	4/2/1960	496,448	245,860	80,703	61,548	577,151	307,408
18	03-870774	IW + Dep 1	11/14/2003	11/17/2003	6/11/1946	1/22/1953	387,620	219,449	114,183	80,740	501,803	300,189
19	03-875844	IW + Dep 1	12/8/2003	12/9/2003	1/1/1950	6/12/1954	420,597	233,557	151,934	100,315	572,531	333,872
20	05-873765	IW + Dep 1	10/20/2005	10/21/2005	9/14/1948	11/15/1946	319,175	197,991	141,446	95,071	460,621	293,062
21	06-861633	IW + Dep 1	8/22/2006	8/30/2006	7/25/1947	11/21/1950	366,177	214,137	131,670	90,052	497,847	304,189
22	07-830602	IW + Dep 1	5/8/2007	5/11/2007	10/29/1942	10/22/1944	270,810	174,997	92,622	68,619	363,432	243,617
23	07-872547	IW + Dep 1	10/30/2007	10/30/2007	8/26/1939	1/19/1942	229,590	155,658	75,291	58,225	304,881	213,883
24	09-815322	IW + Dep 1	4/1/2009	4/7/2009	2/8/1938	7/25/1939	204,533	143,028	65,379	51,924	269,913	194,951
25	09-816901	IW + Dep 1	4/9/2009	4/15/2009	6/10/1942	12/21/1934	177,181	130,498	86,461	65,003	263,642	195,501
26	09-865411	IW + Dep 1	12/28/2009	1/1/2010	7/27/1947	11/21/1960	538,935	263,751	131,670	90,052	670,605	353,803
27	96-581807	IW + Dep 1	1/1/1986	11/5/1996	4/8/1941	1/30/1954	387,726	215,227	80,703	61,548	468,428	276,775
28	98-412907	IW + Dep 1	5/1/1998	6/3/1998	11/26/1934	6/15/1939	187,823	133,501	52,714	43,432	240,537	176,933
29	98-425789	IW + Dep 1	5/1/1998	6/16/1998	2/5/1947	3/6/1943	266,044	175,268	122,590	85,271	388,634	260,539
30	OD175295	IW + Dep 1	6/1/1979	8/17/1979	10/4/1916	5/17/1919	49,204	44,130	13,397	12,855	62,601	56,984
31	OD176789	IW + Dep 1	12/1/1975	4/18/1980	7/2/1920	2/26/1938	158,056	113,093	18,414	17,266	176,470	130,359
32	OD177268	IW + Dep 1	4/4/1975	6/24/1980	4/2/1931	7/10/1935	154,458	114,707	39,776	34,221	194,235	148,928
33	OD177448	IW + Dep 1	11/14/1979	7/28/1980	1/12/1936	3/5/1942	218,951	148,729	56,637	46,116	275,588	194,845
34	OD185188	IW + Dep 1	10/1/1976	10/2/1976	10/11/1934	8/9/1935	162,687	120,549	52,714	43,432	215,400	163,981
35	OD191266	IW + Dep 1	2/1/1987	3/2/1987	12/29/1930	8/12/1930	119,819	94,868	39,776	34,221	159,596	129,089
36	OD206376	IW + Dep 1	11/1/1990	1/22/1991	4/28/1934		214,625	145,733	49,086	40,907	263,711	186,640
37	OD207497	IW + Dep 1	1/1/1991	4/2/1991	3/6/1939		173,863	127,936	70,189	55,018	244,052	182,954
38	OD233829	IW + Dep 1	5/1/1992	8/30/1994	3/3/1938		186,809	134,297	65,379	51,924	252,188	186,220
39	OD234543	IW + Dep 1	3/29/1994	9/27/1994	9/6/1919		98,119	78,673	16,953	16,000	115,072	94,673
40	OD237125	IW + Dep 1	1/1/1995	1/31/1995	4/12/1945		528,150	257,741	106,419	76,463	634,570	334,203
41	OD237127	IW + Dep 1	10/1/1993	1/21/1995	5/23/1937		211,412	145,786	60,860	48,952	272,272	194,738
42	OD237603	IW + Dep 1	8/1/1994	11/22/1995	7/21/1936		184,031	132,473	60,860	48,952	244,891	181,424

INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
							NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
43	OD237647	IW + Dep 1	4/1/1996	4/16/1996	10/5/1942		270,810	174,997	92,622	68,619	363,432	243,617
44	01-868437	IW + Dep 2	10/11/2001	11/29/2001	2/27/1978		855,703	383,568	970,913	334,528	1,826,617	718,096
45	00-503848	Survivor	12/1/1999	9/6/2000	8/30/1932		106,752	80,351	-	-	106,752	80,351
46	00-809637	Survivor	12/1/2000	1/23/2001	12/2/1940		175,258	116,575	-	-	175,258	116,575
47	05-881527	Survivor	10/26/2005	11/22/2005	6/28/1924		56,902	47,944	-	-	56,902	47,944
48	09-823977	Survivor	11/30/2008	5/26/2009	9/23/1949		283,161	160,886	-	-	283,161	160,886
49	OD171415	Survivor	7/1/1976	8/1/1976	2/14/1916		32,520	29,403	-	-	32,520	29,403
50	OD174370	Survivor	10/1/1981	3/22/1982	3/14/1930		87,191	68,381	-	-	87,191	68,381
51	OD174371	Survivor	3/1/1981	3/2/1981	10/14/1922		52,921	45,057	-	-	52,921	45,057
52	OD175133	Survivor	11/1/1978	6/8/1979	8/24/1925		65,786	54,212	-	-	65,786	54,212
53	OD175142	Survivor	4/1/1978	4/8/1978	4/1/1964		539,834	233,219	-	-	539,834	233,219
54	OD175147	Survivor	5/1/1979	5/18/1979	5/2/1929		81,362	64,642	-	-	81,362	64,642
55	OD175883	Survivor	6/1/1980	11/23/1980	11/2/1922		52,921	45,057	-	-	52,921	45,057
56	OD175964	Survivor	2/1/1980	12/4/1980	11/18/1927		75,865	61,038	-	-	75,865	61,038
57	OD176020	Survivor	2/1/1979	12/11/1979	2/28/1923		52,921	45,057	-	-	52,921	45,057
58	OD176162	Survivor	1/1/1979	1/25/1980	9/21/1929		87,191	68,381	-	-	87,191	68,381
59	OD176330	Survivor	11/1/1978	2/18/1980	7/7/1918		39,852	35,208	-	-	39,852	35,208
60	OD176344	Survivor	2/1/1977	2/25/1980	2/12/1940		165,337	111,798	-	-	165,337	111,798
61	OD176348	Survivor	4/1/1981	5/26/1981	8/23/1923		56,902	47,944	-	-	56,902	47,944
62	OD176944	Survivor	8/15/1972	5/7/1980	9/26/1927		75,865	61,038	-	-	75,865	61,038
63	OD177039	Survivor	4/17/1973	5/21/1980	8/22/1925		65,786	54,212	-	-	65,786	54,212
64	OD177118	Survivor	5/1/1976	1/4/1980	1/7/1919		39,852	35,208	-	-	39,852	35,208
65	OD177198	Survivor	10/1/1975	6/17/1980	1/7/1928		75,865	61,038	-	-	75,865	61,038
66	OD177561	Survivor	5/29/1977	8/19/1980	10/17/1925		65,786	54,212	-	-	65,786	54,212
67	OD178112	Survivor	4/1/1980	12/4/1980	8/9/1925		65,786	54,212	-	-	65,786	54,212
68	OD178157	Survivor	10/20/1980	12/12/1980	4/19/1930		87,191	68,381	-	-	87,191	68,381
69	OD178239	Survivor	9/8/1980	1/6/1981	11/7/1937		146,669	102,409	-	-	146,669	102,409
70	OD178320	Survivor	6/1/1978	1/29/1981	11/15/1915		32,520	29,403	-	-	32,520	29,403
71	OD178525	Survivor	2/2/1981	3/2/1981	1/12/1928		75,865	61,038	-	-	75,865	61,038
72	OD178640	Survivor	2/21/1978	3/26/1981	3/2/1926		65,786	54,212	-	-	65,786	54,212
73	OD178643	Survivor	2/1/1980	3/24/1981	6/22/1923		52,921	45,057	-	-	52,921	45,057
74	OD178739	Survivor	7/12/1977	4/8/1981	12/31/1921		49,242	42,343	-	-	49,242	42,343
75	OD178740	Survivor	7/1/1976	4/3/1981	7/1/1920		45,850	39,801	-	-	45,850	39,801
76	OD178856	Survivor	1/1/1974	4/30/1981	11/27/1961		495,736	223,106	-	-	495,736	223,106
77	OD178910	Survivor	9/1/1981	9/2/1981	6/11/1936		129,553	93,303	-	-	129,553	93,303
78	OD180137	Survivor	3/1/1980	2/10/1982	10/30/1925		65,786	54,212	-	-	65,786	54,212
79	OD183041	Survivor	9/1/1983	9/2/1983	6/6/1927		70,677	57,561	-	-	70,677	57,561
80	OD184191	Survivor	3/1/1984	4/12/1984	11/12/1934		121,569	88,880	-	-	121,569	88,880
81	OD186400	Survivor	3/1/1976	4/8/1985	11/4/1919		42,727	37,426	-	-	42,727	37,426
82	OD188169	Survivor	11/1/1985	11/25/1985	12/8/1936		137,919	97,817	-	-	137,919	97,817
83	OD193861	Survivor	12/1/1987	2/16/1988	7/26/1936		137,919	97,817	-	-	137,919	97,817
84	OD198101	Survivor	4/1/1989	5/11/1989	6/10/1943		196,189	126,188	-	-	196,189	126,188
85	OD211061	Survivor	3/27/1991	11/15/1991	12/30/1934		121,569	88,880	-	-	121,569	88,880
86	OD227746	Survivor	4/23/1993	6/28/1993	8/9/1921		49,242	42,343	-	-	49,242	42,343
87	OD227747	Survivor	6/1/1993	6/28/1993	1/26/1944		207,205	131,012	-	-	207,205	131,012
88	OD237508	Survivor	4/1/1995	5/16/1995	10/21/1921		49,242	42,343	-	-	49,242	42,343

INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
							NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
TOTAL LIABILITY FOR CLAIMS CURRENTLY RECEIVING BENEFITS							**15,064,291**	**9,556,340**	**4,694,012**	**3,024,368**	**19,758,303**	**12,580,709**

(1)	CLAIM INDEX NUMBER	(8)	SECTION 8, EXHIBIT 7
(2)	PROVIDED BY BWC	(9)	SECTION 8, EXHIBIT 7
(3)	PROVIDED BY BWC	(10)	SECTION 8, EXHIBIT 7
(4)	PROVIDED BY BWC	(11)	SECTION 8, EXHIBIT 7
(5)	PROVIDED BY BWC	(12)	= (8) + (10)
(6)	PROVIDED BY BWC	(13)	= (9) + (11)
(7)	PROVIDED BY BWC		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

UNPAID LOSSES FOR PENDING & IBNR CLAIMS BASED ON OH DEPT. OF LABOR DATA

		PENDING AND IBNR CLAIMS			
		LIVING MINER		LIVING WIDOW	
NUMBER OF CLAIMS		**LOW**	**HIGH**	**LOW**	**HIGH**
(A)	BASED ON OHIO DEPT. OF LABOR DATA	15	31	1	3
INDEMNITY BENEFIT PER CLAIM					
(B)	NOMINAL	257,352	257,352	114,577	114,577
(C)	DISCOUNTED	79,288	79,288	21,991	21,991
MEDICAL BENEFIT PER CLAIM					
(D)	NOMINAL	410,258	410,258		
(E)	DISCOUNTED	99,270	99,270		
PENDING + IBNR RESERVE FOR CLAIMS - INDEMNITY					
(F)	NOMINAL	3,860,279	7,977,910	114,577	343,732
(G)	DISCOUNTED	1,189,319	2,457,926	21,991	65,974
PENDING + IBNR RESERVE FOR CLAIMS - MEDICAL					
(H)	NOMINAL	6,153,871	12,718,000		
(I)	DISCOUNTED	1,489,054	3,077,377		
PENDING + IBNR RESERVE FOR CLAIMS - TOTAL					
(J)	NOMINAL	10,014,150	20,695,910	114,577	343,732
(K)	DISCOUNTED	2,678,372	5,535,303	21,991	65,974

(A)	LIVING MINER FROM SECTION 8, EXHIBIT 3, SHEET 4.2	(G)	= (A) * (C)
	LIVING WIDOW FROM SECTION 8, EXHIBIT 3, SHEET 7.2	(H)	= (A) * (D)
(B)	AVERAGE OF SECTION 8, EXHIBIT 5, SHEET 1A, COL. (7) AND COL	(I)	= (A) * (E)
(C)	AVERAGE OF SECTION 8, EXHIBIT 5, SHEET 1A, COL. (7A) AND CC	(J)	= (F) + (H)
(D)	AVERAGE SECTION 8, EXHIBIT 5, SHEET 1A, COL. (9)	(K)	= (G) + (I)
(E)	AVERAGE SECTION 8, EXHIBIT 5, SHEET 1A, COL. (9A)		
(F)	= (A) * (B)		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
SHEET 2.1

Ohio Department of Labor Living Miner Filings, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	3	4	4	4	8	14	16	20	21	21	21	21	22	22	22	22	22	23	23	23	23
1971	0	0	0	0	2	2	2	9	13	18	18	18	18	18	18	18	19	19	19	19	19	19	19	20
1972	0	6	8	9	9	19	35	48	56	56	56	56	57	57	57	58	58	59	60	60	60	60	61	62
1973	16	18	20	23	27	38	44	47	47	47	47	47	47	47	47	47	47	48	48	48	49	49	51	51
1974	23	26	27	28	31	31	32	33	33	33	34	34	34	35	35	35	35	35	35	35	35	35	35	35
1975	17	20	21	24	24	24	24	24	24	25	25	25	25	26	26	26	27	27	28	29	30	30	30	30
1976	34	38	40	41	42	42	43	43	43	43	45	45	45	47	47	48	48	48	49	49	49	50	50	50
1977	21	22	23	23	23	24	24	24	25	26	26	27	27	28	29	31	31	31	32	32	32	32	32	32
1978	23	25	27	27	27	27	27	29	30	30	30	30	32	33	33	36	37	38	39	39	39	39	39	40
1979	31	33	33	33	33	33	34	38	38	39	39	39	40	40	40	41	41	41	41	41	42	42	42	42
1980	25	25	27	28	29	32	34	34	36	38	38	38	38	38	38	40	40	40	40	40	43	44	44	45
1981	9	11	12	12	13	15	15	15	16	16	16	16	16	16	17	18	18	19	19	19	19	19	19	20
1982	7	8	8	8	8	8	8	9	10	12	12	12	13	14	15	16	17	17	20	20	21	21	21	21
1983	9	9	9	9	9	10	10	10	11	12	12	12	12	12	12	12	12	13	14	16	17	17	17	17
1984	9	9	10	13	14	14	15	15	16	16	16	18	19	19	19	21	22	22	23	25	26	26	26	26
1985	10	15	16	18	21	21	21	21	22	24	26	26	27	27	27	27	27	28	29	29	30	30	30	30
1986	20	23	26	27	27	27	30	31	31	33	33	34	36	36	36	36	36	37	37	38	38	38	38	38
1987	17	20	22	26	27	30	33	36	36	37	38	38	40	40	42	45	45	45	46	47	49	52	53	53
1988	8	14	17	18	18	18	21	23	23	24	25	26	26	26	26	27	28	28	28	28	28	28	28	28
1989	5	7	9	10	10	11	11	12	13	13	13	13	14	14	16	17	17	17	17	17	17	18	19	
1990	8	9	11	11	15	18	18	19	20	21	24	24	25	26	28	31	32	33	34	42	43	44		
1991	7	12	15	16	17	18	18	18	18	20	24	24	25	27	29	30	30	31	31	33	33			
1992	6	8	13	16	18	21	22	25	25	27	28	29	30	31	33	34	35	35	36	38				
1993	4	5	7	8	9	9	9	12	13	14	16	16	16	17	18	18	19	19	20					
1994	8	10	11	13	15	16	18	19	19	20	20	22	22	23	23	24	24	24						
1995	1	1	1	4	5	7	8	8	8	8	8	8	9	9	9	10	10							
1996	1	1	3	3	3	4	5	5	5	5	5	5	5	6	6	6								
1997	2	3	3	3	3	3	3	3	4	4	6	7	7	7	7									
1998	2	2	3	4	5	5	5	5	7	7	7	8	9	9										
1999	2	2	5	7	8	9	9	9	9	9	9	9	9											
2000	1	1	1	4	4	4	5	5	6	6	6	6												
2001	5	11	19	21	21	23	26	29	31	36	38													
2002	4	9	13	15	17	17	18	18	22	24														
2003	2	2	2	2	2	2	3	4	5															
2004	0	1	1	1	3	3	3	3																
2005	2	3	3	3	3	5	5																	
2006	0	0	0	1	2	2																		
2007	4	5	5	6	6																			
2008	1	2	2	2																				
2009	2	5	5																					
2010	3	3																						
2011	1																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Ohio Department of Labor Living Miner Filings, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) CDF	(3) Indicated Ultimate Filings	(4) Selected Ultimate Filings
1970	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1.000	23	23
1971	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		21	1.000	21	21
1972	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63			63	1.000	63	63
1973	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51				51	1.000	51	51
1974	35	35	35	35	35	35	35	35	35	35	35	35	35	35					35	1.000	35	35
1975	30	30	30	30	30	30	30	30	30	30	30	30	30						30	1.000	30	30
1976	50	51	51	51	51	51	51	51	51	51	51	51							51	1.000	51	51
1977	32	32	32	33	34	35	35	35	35	35	35								35	1.000	35	35
1978	40	41	41	41	41	41	41	41	41	41									41	1.000	41	41
1979	42	42	42	43	43	43	44	44	44										44	1.000	44	44
1980	46	46	46	46	47	47	47	47											47	1.000	47	47
1981	20	20	20	20	21	21	21												21	1.000	21	21
1982	22	23	23	23	23	23													23	1.002	23	23
1983	17	17	17	17	17														17	1.004	17	17
1984	27	27	28	28															28	1.010	28	28
1985	30	30	30																30	1.014	30	30
1986	39	39																	39	1.018	40	40
1987	53																		53	1.025	54	54
1988																			28	1.031	29	29
1989																			19	1.039	20	20
1990																			44	1.047	46	46
1991																			33	1.057	35	35
1992																			38	1.077	41	41
1993																			20	1.105	22	22
1994																			24	1.127	27	27
1995																			10	1.140	11	11
1996																			6	1.154	7	7
1997																			7	1.195	8	8
1998																			9	1.218	11	11
1999																			9	1.241	11	11
2000																			6	1.270	8	8
2001																			38	1.289	49	49
2002																			24	1.333	32	32
2003																			5	1.398	7	7
2004																			3	1.481	4	4
2005																			5	1.607	8	8
2006																			2	1.736	3	25
2007																			6	1.888	11	25
2008																			2	2.020	4	25
2009																			5	2.220	11	25
2010																			3	2.521	8	25
2011																			1	3.063	3	25
																					TOTAL	1,181

(2) From SECTION 8, EXHIBITS 2.3 AND 2.4
(3) = (1) * (2)
(4) SELECTED BY DELOITTE

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
SHEET 2.3

Ohio Department of Labor Living Miner Filings, Insured Only - Development Factors

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970				1.333	1.000	1.000	2.000	1.750	1.143	1.250	1.050	1.000	1.000	1.000	1.048	1.000	1.000	1.000	1.000	1.045	1.000	1.000	1.000	1.000
1971					1.000	1.000	4.500	1.444	1.385	1.000	1.000	1.000	1.000	1.000	1.000	1.056	1.000	1.000	1.000	1.000	1.000	1.000	1.053	1.000
1972		1.333	1.125	1.000	2.111	1.842	1.371	1.167	1.000	1.000	1.000	1.018	1.000	1.000	1.018	1.000	1.017	1.017	1.000	1.000	1.000	1.017	1.016	1.000
1973	1.125	1.111	1.150	1.174	1.407	1.158	1.068	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.021	1.000	1.000	1.021	1.000	1.041	1.000	1.000
1974	1.130	1.038	1.037	1.107	1.000	1.032	1.031	1.000	1.000	1.030	1.000	1.000	1.029	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1975	1.176	1.050	1.143	1.000	1.000	1.000	1.000	1.000	1.042	1.000	1.000	1.000	1.040	1.000	1.000	1.038	1.000	1.037	1.036	1.034	1.000	1.000	1.000	1.000
1976	1.118	1.053	1.025	1.024	1.000	1.024	1.000	1.000	1.000	1.047	1.000	1.000	1.044	1.000	1.021	1.000	1.000	1.021	1.000	1.000	1.020	1.000	1.000	1.000
1977	1.048	1.045	1.000	1.000	1.043	1.000	1.000	1.042	1.040	1.000	1.038	1.000	1.037	1.036	1.069	1.000	1.000	1.032	1.000	1.000	1.000	1.000	1.000	1.000
1978	1.087	1.080	1.000	1.000	1.000	1.000	1.074	1.034	1.000	1.000	1.000	1.067	1.031	1.000	1.091	1.028	1.027	1.026	1.000	1.000	1.000	1.000	1.026	1.000
1979	1.065	1.000	1.000	1.000	1.000	1.030	1.118	1.000	1.026	1.000	1.000	1.026	1.000	1.000	1.025	1.000	1.000	1.000	1.000	1.024	1.000	1.000	1.000	1.000
1980	1.000	1.080	1.037	1.036	1.103	1.063	1.000	1.059	1.056	1.000	1.000	1.000	1.000	1.000	1.053	1.000	1.000	1.000	1.000	1.075	1.023	1.000	1.023	1.022
1981	1.222	1.091	1.000	1.083	1.154	1.000	1.000	1.067	1.000	1.000	1.000	1.000	1.000	1.063	1.059	1.000	1.056	1.000	1.000	1.000	1.000	1.000	1.053	1.000
1982	1.143	1.000	1.000	1.000	1.000	1.000	1.125	1.111	1.200	1.000	1.000	1.083	1.077	1.071	1.067	1.063	1.000	1.176	1.000	1.050	1.000	1.000	1.000	1.048
1983	1.000	1.000	1.000	1.000	1.111	1.000	1.000	1.100	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.083	1.077	1.143	1.063	1.000	1.000	1.000	1.000
1984	1.000	1.111	1.300	1.077	1.000	1.071	1.000	1.067	1.000	1.000	1.125	1.056	1.000	1.000	1.105	1.048	1.000	1.045	1.087	1.040	1.000	1.000	1.000	1.038
1985	1.500	1.067	1.125	1.167	1.000	1.000	1.000	1.048	1.091	1.083	1.000	1.038	1.000	1.000	1.000	1.000	1.037	1.036	1.000	1.034	1.000	1.000	1.000	1.000
1986	1.150	1.130	1.038	1.000	1.000	1.111	1.033	1.000	1.065	1.000	1.030	1.059	1.000	1.000	1.000	1.000	1.028	1.000	1.027	1.000	1.000	1.000	1.000	1.026
1987	1.176	1.100	1.182	1.038	1.111	1.100	1.091	1.000	1.028	1.027	1.000	1.053	1.000	1.050	1.071	1.000	1.000	1.022	1.022	1.043	1.061	1.019	1.000	1.000
1988	1.750	1.214	1.059	1.000	1.000	1.167	1.095	1.000	1.043	1.042	1.040	1.000	1.000	1.000	1.038	1.037	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1989	1.400	1.286	1.111	1.000	1.100	1.000	1.091	1.083	1.000	1.000	1.000	1.077	1.000	1.143	1.063	1.000	1.000	1.000	1.000	1.000	1.059	1.056		
1990	1.125	1.222	1.000	1.364	1.200	1.000	1.056	1.053	1.050	1.143	1.000	1.042	1.040	1.077	1.107	1.032	1.031	1.030	1.235	1.024	1.023			
1991	1.714	1.250	1.067	1.063	1.059	1.000	1.000	1.000	1.111	1.200	1.000	1.042	1.080	1.074	1.034	1.000	1.033	1.000	1.065	1.000				
1992	1.333	1.625	1.231	1.125	1.167	1.048	1.136	1.000	1.080	1.037	1.036	1.034	1.033	1.065	1.030	1.029	1.000	1.029	1.056					
1993	1.250	1.400	1.143	1.125	1.000	1.000	1.333	1.083	1.077	1.143	1.000	1.000	1.063	1.059	1.000	1.056	1.000	1.053						
1994	1.250	1.100	1.182	1.154	1.067	1.125	1.056	1.000	1.053	1.000	1.100	1.000	1.045	1.000	1.043	1.000	1.000							
1995	1.000	1.000	4.000	1.250	1.400	1.143	1.000	1.000	1.000	1.000	1.000	1.125	1.000	1.000	1.111	1.000								
1996	1.000	3.000	1.000	1.000	1.333	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.200	1.000	1.000									
1997	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.333	1.000	1.500	1.167	1.000	1.000	1.000										
1998	1.000	1.500	1.333	1.250	1.000	1.000	1.000	1.400	1.000	1.000	1.143	1.125	1.000											
1999	1.000	2.500	1.400	1.143	1.125	1.000	1.000	1.000	1.000	1.000	1.000	1.000												
2000	1.000	1.000	4.000	1.000	1.000	1.250	1.000	1.200	1.000	1.000	1.000													
2001	2.200	1.727	1.105	1.000	1.095	1.130	1.115	1.069	1.161	1.056														
2002	2.250	1.444	1.154	1.133	1.000	1.059	1.000	1.222	1.091															
2003	1.000	1.000	1.000	1.000	1.000	1.500	1.333	1.250																
2004		1.000	1.000	3.000	1.000	1.000	1.000																	
2005	1.500	1.000	1.000	1.000	1.667	1.000																		
2006				2.000	1.000																			
2007	1.250	1.000	1.200	1.000																				
2008	2.000	1.000	1.000																					
2009	2.500	1.000																						
2010	1.000																							
All Yr Wtd Avg	1.215	1.135	1.099	1.069	1.088	1.081	1.085	1.060	1.048	1.034	1.015	1.023	1.019	1.019	1.036	1.012	1.012	1.020	1.025	1.019	1.010	1.007	1.008	1.006
10 yr Wgt Avg	1.783	1.308	1.216	1.109	1.074	1.093	1.047	1.105	1.073	1.051	1.039	1.033	1.043	1.048	1.052	1.015	1.014	1.020	1.061	1.024	1.017	1.007	1.006	1.012
5 yr Wgt Avg	1.500	1.000	1.182	1.231	1.074	1.100	1.073	1.123	1.093	1.065	1.061	1.054	1.038	1.016	1.034	1.017	1.014	1.022	1.082	1.018	1.029	1.012	1.000	1.012
Selected A-A	1.215	1.135	1.099	1.069	1.088	1.081	1.085	1.060	1.048	1.034	1.015	1.023	1.019	1.019	1.036	1.012	1.012	1.020	1.025	1.019	1.010	1.007	1.008	1.006
Cumulative	3.063	2.521	2.220	2.020	1.888	1.736	1.607	1.481	1.398	1.333	1.289	1.270	1.241	1.218	1.195	1.154	1.140	1.127	1.105	1.077	1.057	1.047	1.039	1.031

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Ohio Department of Labor Living Miner Filings, Insured Only - Development Factors

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1971	1.000	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1972	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1973	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1974	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1976	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1977	1.000	1.000	1.031	1.030	1.029	1.000	1.000	1.000	1.000	1.000								
1978	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
1979	1.000	1.000	1.024	1.000	1.000	1.023	1.000	1.000										
1980	1.000	1.000	1.000	1.022	1.000	1.000	1.000											
1981	1.000	1.000	1.000	1.050	1.000	1.000												
1982	1.045	1.000	1.000	1.000	1.000													
1983	1.000	1.000	1.000	1.000														
1984	1.000	1.037	1.000															
1985	1.000	1.000																
1986	1.000																	
1987																		
1988																		
1989																		
1990																		
1991																		
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2003																		
2004																		
2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	1.007	1.004	1.004	1.006	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
10 yr Wgt Avg	1.006	1.003	1.006	1.009	1.003	1.002	1.000	1.000										
5 yr Wgt Avg	1.007	1.009	1.000	1.013	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Selected A-A	1.007	1.004	1.004	1.006	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.025	1.018	1.014	1.010	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
SHEET 3.1

Ohio Department of Labor Living Miner Entitlements, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	10	15	15	16	16	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19
1971	0	0	11	15	16	16	16	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1972	0	40	50	50	50	51	52	53	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
1973	30	32	34	37	39	41	43	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	45	45
1974	21	25	26	27	28	28	28	28	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30
1975	16	18	20	21	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24
1976	30	35	36	38	39	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1977	17	18	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	23	23	23	23
1978	24	28	28	29	29	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31
1979	25	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1980	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24
1981	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
1982	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
1983	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
1984	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
1985	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4
1986	1	2	2	2	2	2	2	2	3	4	5	5	5	5	5	5	5	5	5	7	8	8	8	8
1987	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	5	5	6	6	7	7	7	8	8
1988	0	0	0	1	1	1	2	2	2	2	2	2	2	2	2	2	2	4	4	4	5	6	7	7
1989	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
1990	2	3	3	3	3	3	3	4	4	4	5	5	5	5	5	5	6	6	7	7	7	7		
1991	0	1	1	1	1	1	1	1	1	2	2	2	2	3	4	5	5	5	5	5	5			
1992	0	0	0	0	0	0	0	0	1	2	3	3	3	3	3	3	3	3	3	3				
1993	1	1	1	1	1	1	1	2	2	3	4	4	4	4	4	4	4	4	4					
1994	2	2	2	2	3	3	5	6	6	6	6	6	6	6	6	6	6	6						
1995	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1									
1998	2	2	2	3	3	3	3	3	3	3	3	3	3	3										
1999	0	0	1	1	1	1	1	1	1	1	1	1	1											
2000	0	2	2	2	0	0	0	1	1	1	1	1												
2001	0	1	1	2	2	2	2	2	4	4	4													
2002	0	2	2	2	1	1	1	2	3	3														
2003	0	0	0	0	0	0	0	0	0															
2004	0	0	0	0	1	1	1	1																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	1	1	2	1																			
2008	0	0	0	0																				
2009	1	1	2																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 3.2

Ohio Department of Labor Living Miner Entitlements, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504
1970	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1971	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
1972	54	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
1973	45	45	45	45	45	45	46	46	46	46	46	46	46	46	46			
1974	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
1975	24	24	24	24	24	24	24	24	24	24	24	24	24					
1976	40	40	40	40	40	40	40	40	40	40	40	40						
1977	23	23	23	23	23	23	23	23	23	23	23							
1978	31	31	31	31	31	31	31	31	31	31								
1979	28	28	28	28	28	28	28	28	28									
1980	24	24	24	24	24	24	24	24										
1981	11	11	11	11	11	11	11											
1982	5	5	5	5	5	5												
1983	8	8	8	8	8													
1984	3	3	3	3														
1985	4	4	4															
1986	10	10																
1987	8																	
1988																		
1989																		
1990																		
1991																		
1992																		
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2006																		
2007																		
2008																		
2009																		
2010																		
2011																		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 4.1

Cumulative Living Miner Entitlement Ratios (= EXHIBIT 3, SHEET 3 / EXHIBIT 3, SHEET 2 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0.0%	0.0%	0.0%	43.5%	65.2%	65.2%	69.6%	69.6%	73.9%	78.3%	78.3%	78.3%	78.3%	78.3%	78.3%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%
1971	0.0%	0.0%	52.4%	71.4%	76.2%	76.2%	76.2%	81.0%	81.0%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1972	0.0%	63.5%	79.4%	79.4%	79.4%	81.0%	82.5%	84.1%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1973	58.8%	62.7%	66.7%	72.5%	76.5%	80.4%	84.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	88.2%	88.2%
1974	60.0%	71.4%	74.3%	77.1%	80.0%	80.0%	80.0%	80.0%	82.9%	82.9%	82.9%	82.9%	82.9%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1975	53.3%	60.0%	66.7%	70.0%	73.3%	73.3%	73.3%	73.3%	73.3%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	80.0%	80.0%	80.0%	80.0%	80.0%
1976	58.8%	68.6%	70.6%	74.5%	76.5%	76.5%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%
1977	48.6%	51.4%	57.1%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	62.9%	62.9%	65.7%	65.7%	65.7%	65.7%
1978	58.5%	68.3%	68.3%	70.7%	70.7%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%
1979	56.8%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%
1980	46.8%	46.8%	46.8%	46.8%	46.8%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%
1981	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%
1982	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	17.4%	17.4%	17.4%	17.4%	17.4%	17.4%
1983	29.3%	29.3%	29.3%	35.1%	35.1%	35.1%	35.1%	35.1%	35.1%	41.0%	41.0%	41.0%	41.0%	41.0%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%
1984	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%
1985	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	9.9%	9.9%	13.1%	13.1%	13.1%	13.1%	13.1%	13.1%
1986	2.5%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	7.6%	10.1%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	17.6%	20.2%	20.2%	20.2%	20.2%
1987	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	5.5%	7.4%	9.2%	9.2%	11.0%	11.0%	12.9%	12.9%	12.9%	14.7%	14.7%
1988	0.0%	0.0%	0.0%	3.5%	3.5%	3.5%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	13.9%	13.9%	13.9%	17.3%	20.8%	24.2%	24.2%
1989	0.0%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	10.1%	10.1%	10.1%	10.1%	10.1%	
1990	4.3%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	8.7%	8.7%	8.7%	10.9%	10.9%	10.9%	10.9%	10.9%	10.9%	13.0%	13.0%	15.2%	15.2%	15.2%	15.2%		
1991	0.0%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	5.7%	5.7%	5.7%	5.7%	8.6%	11.5%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%			
1992	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	4.9%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%				
1993	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	9.1%	9.1%	13.6%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%					
1994	7.4%	7.4%	7.4%	7.4%	11.1%	11.1%	18.5%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%						
1995	0.0%	0.0%	0.0%	0.0%	0.0%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%							
1996	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%								
1997	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.0%	12.0%	12.0%	12.0%	12.0%									
1998	18.2%	18.2%	18.2%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%										
1999	0.0%	0.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%											
2000	0.0%	26.2%	26.2%	26.2%	0.0%	0.0%	0.0%	13.1%	13.1%	13.1%	13.1%	13.1%												
2001	0.0%	2.0%	2.0%	4.1%	4.1%	4.1%	4.1%	4.1%	8.2%	8.2%	8.2%													
2002	0.0%	6.3%	6.3%	6.3%	3.1%	3.1%	3.1%	6.3%	9.4%	9.4%														
2003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
2004	0.0%	0.0%	0.0%	0.0%	22.5%	22.5%	22.5%	22.5%																
2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																	
2006	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																		
2007	0.0%	4.0%	4.0%	8.0%	4.0%																			
2008	0.0%	0.0%	0.0%	0.0%																				
2009	4.0%	4.0%	8.0%																					
2010	0.0%	0.0%																						
2011	0.0%																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
SHEET 4.2

Cumulative Living Miner Entitlement Ratios (= EXHIBIT 3, SHEET 3 / EXHIBIT 3, SHEET 2 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) Addl % Add	(3) Indicated Ultimate Entl Ratio	(4) Selected Ultimate Entl Ratio Low	(5) Selected Ultimate Entl Ratio High	(6) # Additional Claims Low	(7) # Additional Claims High
1970	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	0.0%	82.6%	82.6%	82.6%	-	-
1971	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%		85.7%	0.0%	85.7%	85.7%	85.7%	-	-
1972	85.7%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%			87.3%	0.0%	87.3%	87.3%	87.3%	-	-
1973	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%				90.2%	0.0%	90.2%	90.2%	90.2%	-	-
1974	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%					85.7%	0.0%	85.7%	85.7%	85.7%	-	-
1975	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%						80.0%	0.0%	80.0%	80.0%	80.0%	-	-
1976	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%							78.4%	0.0%	78.4%	78.4%	78.4%	-	-
1977	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%								65.7%	0.0%	65.7%	65.7%	65.7%	-	-
1978	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%									75.6%	0.0%	75.6%	75.6%	75.6%	-	-
1979	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%										63.6%	0.0%	63.6%	63.6%	63.6%	-	-
1980	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%											51.1%	0.0%	51.1%	51.1%	51.1%	-	-
1981	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%												52.4%	0.0%	52.4%	52.4%	52.4%	-	-
1982	21.7%	21.7%	21.7%	21.7%	21.7%	21.7%													21.7%	0.2%	21.9%	21.9%	21.9%	0.0	0.0
1983	46.9%	46.9%	46.9%	46.9%	46.9%														46.9%	0.2%	47.0%	47.0%	47.0%	0.0	0.0
1984	10.6%	10.6%	10.6%	10.6%															10.6%	0.2%	10.8%	10.8%	10.8%	0.0	0.0
1985	13.1%	13.1%	13.1%																13.1%	0.2%	13.3%	13.3%	13.3%	0.0	0.0
1986	25.2%	25.2%																	25.2%	0.2%	25.4%	25.4%	25.4%	0.1	0.1
1987	14.7%																		14.7%	0.3%	15.0%	15.0%	15.0%	0.1	0.1
1988																			24.2%	0.8%	25.0%	25.0%	25.0%	0.2	0.2
1989																			10.1%	0.8%	10.9%	10.9%	10.9%	0.2	0.2
1990																			15.2%	1.1%	16.3%	16.3%	16.3%	0.5	0.5
1991																			14.3%	1.3%	15.6%	15.6%	15.6%	0.5	0.5
1992																			7.3%	1.7%	9.0%	9.0%	9.0%	0.7	0.7
1993																			18.1%	2.2%	20.3%	20.3%	20.3%	0.5	0.5
1994																			22.2%	2.9%	25.1%	25.1%	25.1%	0.8	0.8
1995																			8.8%	3.5%	12.3%	12.3%	12.3%	0.4	0.4
1996																			0.0%	3.7%	3.7%	3.7%	3.7%	0.3	0.3
1997																			12.0%	4.2%	16.1%	16.1%	16.1%	0.3	0.3
1998																			27.4%	4.5%	31.9%	31.9%	31.9%	0.5	0.5
1999																			9.0%	4.9%	13.8%	13.8%	13.8%	0.5	0.5
2000																			13.1%	4.9%	18.0%	18.0%	18.0%	0.4	0.4
2001																			8.2%	5.0%	13.1%	13.1%	13.1%	2.4	2.4
2002																			9.4%	5.7%	15.1%	15.1%	15.1%	1.8	1.8
2003																			0.0%	6.6%	6.6%	6.6%	6.6%	0.5	0.5
2004																			22.5%	7.4%	29.9%	29.9%	29.9%	0.3	0.3
2005																			0.0%	8.4%	8.4%	8.4%	8.4%	0.7	0.7
2006																			0.0%	9.0%	9.0%	10.0%	15.0%	0.3	3.8
2007																			4.0%	9.5%	13.5%	10.0%	15.0%	0.7	2.8
2008																			0.0%	10.4%	10.4%	10.0%	15.0%	0.4	3.8
2009																			8.0%	11.7%	19.7%	10.0%	15.0%	0.2	1.8
2010																			0.0%	13.0%	13.0%	10.0%	15.0%	0.8	3.8
2011																			0.0%	14.0%	14.0%	10.0%	15.0%	0.3	3.8
																							TOTAL	14.5	31.3

(2) From SECTION 8, EXHIBITS 4.3 AND 4.4
(3) = (1) + (2)
(4), (5) SELECTED BY DELOITTE
(6) = [(4) - (1)]* SECTION 8, EXHIBIT 3, SHEET 2.2, COL (4)
(7) = [(5) - (1)]* SECTION 8, EXHIBIT 3, SHEET 2.2, COL (4)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 4.3

Incremental Living Miner Entitlement Ratios

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970	-	-	0.435	0.217	-	0.043	-	0.043	0.043	-	-	-	-	-	0.043	-	-	-	-	-	-	-	-	-
1971	-	0.524	0.190	0.048	-	-	0.048	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	0.635	0.159	-	-	0.016	0.016	0.016	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	0.039	0.039	0.059	0.039	0.039	0.039	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-
1974	0.114	0.029	0.029	0.029	-	-	-	0.029	-	-	-	-	0.029	-	-	-	-	-	-	-	-	-	-	-
1975	0.067	0.067	0.033	0.033	-	-	-	-	0.033	-	-	-	-	-	-	-	-	-	0.033	-	-	-	-	-
1976	0.098	0.020	0.039	0.020	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	0.029	0.057	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.029	-	0.029	-	-	-	-
1978	0.098	-	0.024	-	0.024	-	-	-	-	-	-	-	-	-	0.024	-	-	-	-	-	-	-	-	-
1979	0.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	0.021	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	0.048	-	-	-	-	-	-	-	-	0.048	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.043	-	-	-	-	-	0.043
1983	-	-	0.059	-	-	-	-	-	0.059	-	-	-	-	0.059	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.033	-	0.033	-	-	-	-	-	-
1986	0.025	-	-	-	-	-	-	0.025	0.025	0.025	-	-	-	-	-	-	-	-	0.050	0.025	-	-	-	0.050
1987	-	-	-	-	-	-	-	-	-	-	-	-	0.037	0.018	0.018	-	0.018	-	0.018	-	-	0.018	-	-
1988	-	-	0.035	-	-	0.035	-	-	-	-	-	-	-	-	-	-	0.069	-	-	0.035	0.035	0.035	-	
1989	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.051	-	-	-	-		
1990	0.022	-	-	-	-	-	0.022	-	-	0.022	-	-	-	-	-	0.022	-	0.022	-	-	-			
1991	0.029	-	-	-	-	-	-	-	0.029	-	-	-	0.029	0.029	0.029	-	-	-	-	-				
1992	-	-	-	-	-	-	-	0.024	0.024	0.024	-	-	-	-	-	-	-	-	-					
1993	-	-	-	-	-	-	0.045	-	0.045	0.045	-	-	-	-	-	-	-	-						
1994	-	-	-	0.037	-	0.074	0.037	-	-	-	-	-	-	-	-	-	-							
1995	-	-	-	-	0.088	-	-	-	-	-	-	-	-	-	-	-								
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
1997	-	-	-	-	-	-	-	-	-	0.120	-	-	-	-										
1998	-	-	0.091	-	-	-	-	-	-	-	-	-	-											
1999	-	0.090	-	-	-	-	-	-	-	-	-	-												
2000	0.262	-	-	(0.262)	-	-	0.131	-	-	-	-													
2001	0.020	-	0.020	-	-	-	-	0.041	-	-														
2002	0.063	-	-	(0.031)	-	-	0.031	0.031	-															
2003	-	-	-	-	-	-	-	-																
2004	-	-	-	0.225	-	-	-																	
2005	-	-	-	-	-	-																		
2006	-	-	-	-	-																			
2007	0.040	-	0.040	(0.040)																				
2008	-	-	-																					
2009	-	0.040																						
2010	-																							
All Yr Wtd Avg	0.040	0.026	0.028	0.008	0.005	0.006	0.010	0.008	0.009	0.007	0.001	-	0.003	0.004	0.004	0.002	0.006	0.007	0.004	0.004	0.002	0.004	-	0.005
10 yr Wgt Avg	0.012	0.004	0.006	(0.011)	-	-	0.016	0.007	0.005	0.019	-	-	0.003	0.003	0.005	0.002	0.009	0.011	0.007	0.006	0.003	0.005	-	0.009
5 yr Wgt Avg	0.008	0.008	0.008	0.037	-	-	0.032	0.014	-	0.024	-	-	-	-	-	-	-	0.014	-	0.007	0.007	0.011	-	0.010
Selected A-A	0.010	0.013	0.013	0.008	0.005	0.006	0.010	0.008	0.009	0.007	0.001	-	0.003	0.004	0.004	0.002	0.006	0.007	0.004	0.004	0.002	0.004	-	0.005
Cumulative	0.140	0.130	0.117	0.104	0.095	0.090	0.084	0.074	0.066	0.057	0.050	0.049	0.049	0.045	0.042	0.037	0.035	0.029	0.022	0.017	0.013	0.011	0.008	0.008

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Incremental Living Miner Entitlement Ratios

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1972	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1973	-	-	-	-	-	0.020	-	-	-	-	-	-	-	-				
1974	-	-	-	-	-	-	-	-	-	-	-	-	-					
1975	-	-	-	-	-	-	-	-	-	-	-	-						
1976	-	-	-	-	-	-	-	-	-	-	-							
1977	-	-	-	-	-	-	-	-	-	-								
1978	-	-	-	-	-	-	-	-	-									
1979	-	-	-	-	-	-	-	-										
1980	-	-	-	-	-	-	-											
1981	-	-	-	-	-	-												
1982	-	-	-	-	-													
1983	-	-	-	-														
1984	-	-	-															
1985	-	-																
1986	-																	
1987																		
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2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	0.001	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
10 yr Wgt Avg	-	-	-	-	-	0.002	-	-										
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selected A-A	0.001	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
Cumulative	0.003	0.002	0.002	0.002	0.002	0.002	-	-	-	-	-	-	-	-	-	-	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 5.1

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
1972	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1973	0	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1976	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
1977	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
1978	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1979	1	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4
1980	3	3	3	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
1983	0	0	1	1	1	2	2	3	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1984	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1985	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
1986	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1987	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1			
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
1994	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2						
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
1999	0	0	0	0	0	0	0	0	0	0	0	0	0											
2000	0	0	0	0	0	0	0	0	0	0	0	0												
2001	0	0	0	0	1	1	1	1	1	1	1													
2002	0	0	1	1	1	1	1	1	1	1														
2003	0	0	0	0	1	1	1	1	1															
2004	0	0	0	0	0	0	0	0																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	0	0	0	0																			
2008	0	0	1	1																				
2009	0	0	0																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) CDF	(3) Indicated Ultimate Filings	(4) Selected Ultimate Filings
1970	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.000	1	1
1971	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1.000	1	1
1972	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			3	1.000	3	3
1973	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				5	1.000	5	5
1974	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	1.000	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1.000	1	1
1976	2	2	2	2	2	2	2	2	2	2	2	2							2	1.000	2	2
1977	5	5	5	5	5	5	5	5	5	5	5								5	1.000	5	5
1978	3	3	3	3	3	3	3	3	3	3									3	1.000	3	3
1979	4	4	4	4	4	4	4	4	4										4	1.000	4	4
1980	6	6	6	6	6	6	6	6											6	1.000	6	6
1981	1	1	1	1	1	1	1												1	1.000	1	1
1982	1	1	1	1	1	1													1	1.000	1	1
1983	5	5	5	5	5														5	1.000	5	5
1984	2	2	2	2															2	1.000	2	2
1985	5	5	5																5	1.000	5	5
1986	3	3																	3	1.000	3	3
1987	1																		1	1.000	1	1
1988																			0	1.020	-	-
1989																			2	1.042	2	2
1990																			0	1.063	-	-
1991																			1	1.085	1	1
1992																			0	1.085	-	-
1993																			0	1.131	-	-
1994																			2	1.131	2	2
1995																			0	1.155	-	-
1996																			0	1.232	-	-
1997																			0	1.232	-	-
1998																			0	1.232	-	-
1999																			0	1.320	-	-
2000																			0	1.386	-	-
2001																			1	1.386	1	1
2002																			1	1.495	1	1
2003																			1	1.576	2	2
2004																			0	1.711	-	-
2005																			0	1.761	-	-
2006																			0	1.871	-	2
2007																			0	2.218	-	2
2008																			1	2.604	3	2
2009																			0	2.841	-	2
2010																			0	3.676	-	2
2011																			0	4.464	-	2
																					TOTAL	72

(2) From SECTION 8, EXHIBITS 5.3 AND 5.4
(3) = (1) * (2)
(4) SELECTED BY DEL0ITTE

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 5.3

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970													1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1971																						1.000	1.000	1.000
1972					3.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1973		1.000	1.000	2.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1974																				1.000	1.000	1.000	1.000	1.000
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1976	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000
1977	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1978	1.000	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.500	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.333	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981																								
1982																	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983			1.000	1.000	2.000	1.000	1.500	1.333	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987														1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988																								
1989													1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000	1.000		
1990																								
1991																	1.000	1.000	1.000	1.000				
1992																								
1993																								
1994		1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1995																								
1996																								
1997																								
1998																								
1999																								
2000																								
2001					1.000	1.000	1.000	1.000	1.000	1.000														
2002			1.000	1.000	1.000	1.000	1.000	1.000	1.000															
2003					1.000	1.000	1.000	1.000																
2004																								
2005																								
2006																								
2007																								
2008			1.000																					
2009																								
2010																								
All Yr Wtd Avg	1.214	1.294	1.091	1.174	1.185	1.063	1.029	1.086	1.054	1.079	1.000	1.050	1.071	1.000	1.000	1.067	1.021	1.000	1.043	1.000	1.021	1.020	1.021	1.020
10 yr Wgt Avg			1.000	3.000	1.000	1.000	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.143	1.000	1.000	1.059	1.000	1.000	1.000	1.038	1.033
5 yr Wgt Avg			1.000		1.000	1.000	1.000	1.000	1.000	1.000			1.000	1.000	1.000	1.500	1.000	1.000	1.500	1.000	1.000	1.000	1.100	1.000
Selected A-A	1.214	1.294	1.091	1.174	1.185	1.063	1.029	1.086	1.054	1.079	1.000	1.050	1.071	1.000	1.000	1.067	1.021	1.000	1.043	1.000	1.021	1.020	1.021	1.020
Cumulative	4.464	3.676	2.841	2.604	2.218	1.871	1.761	1.711	1.576	1.495	1.386	1.386	1.320	1.232	1.232	1.232	1.155	1.131	1.131	1.085	1.085	1.063	1.042	1.020

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1971	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1972	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1973	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1974	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1976	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000								
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000											
1981	1.000	1.000	1.000	1.000	1.000	1.000												
1982	1.000	1.000	1.000	1.000	1.000													
1983	1.000	1.000	1.000	1.000														
1984	1.000	1.000	1.000															
1985	1.000	1.000																
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2002																		
2003																		
2004																		
2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
10 yr Wgt Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
5 yr Wgt Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Selected A-A	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Ohio Department of Labor Living Widow Entitlements, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
1972	0	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1973	1	1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1976	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1977	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
1978	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	3	3	3	3	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	0	0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
1999	0	0	0	0	0	0	0	0	0	0	0	0	0											
2000	0	0	0	0	0	0	0	0	0	0	0	0												
2001	0	0	0	0	0	0	0	0	0	0	0													
2002	0	0	0	0	0	0	0	0	0	0														
2003	0	0	0	0	0	0	0	0	0															
2004	0	0	0	0	0	0	0	0																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	0	0	0	0																			
2008	0	0	0	0																				
2009	0	0	0																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 6.2

Ohio Department of Labor Living Widow Entitlements, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1972	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
1973	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
1974	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
1975	1	1	1	1	1	1	1	1	1	1	1	1	1					
1976	1	1	1	1	1	1	1	1	1	1	1	1						
1977	5	5	5	5	5	5	5	5	5	5	5							
1978	3	3	3	3	3	3	3	3	3	3								
1979	0	0	0	0	0	0	0	0	0									
1980	5	5	5	5	5	5	5	5										
1981	0	0	0	0	0	0	0											
1982	0	0	0	0	0	0												
1983	0	0	0	0	0													
1984	1	1	1	1														
1985	3	3	3															
1986	0	0																
1987	0																	
1988																		
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2011																		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

SECTION 8
EXHIBIT 3
Sheet 7.1

Cumulative Living Widow Entitlement Ratios (= EXHIBIT 3, SHEET 6 / EXHIBIT 3, SHEET 5 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1971	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%
1972	0.0%	33.3%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1973	20.0%	20.0%	20.0%	20.0%	40.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
1974	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1975	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1976	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
1977	60.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1978	33.3%	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	50.0%	50.0%	50.0%	50.0%	50.0%	66.7%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
1985	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	60.0%	60.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
1992	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
1993	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
1994	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
1995	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
1996	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%								
1997	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
1998	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
1999	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%											
2000	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
2001	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													
2002	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%														
2003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
2004	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																
2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																	
2006	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																		
2007	0.0%	0.0%	0.0%	0.0%	0.0%																			
2008	0.0%	0.0%	0.0%	0.0%																				
2009	0.0%	0.0%	0.0%																					
2010	0.0%	0.0%																						
2011	0.0%																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Cumulative Living Widow Entitlement Ratios (= EXHIBIT 3, SHEET 6 / EXHIBIT 3, SHEET 5 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) Addl % Add	(3) Indicated Ultimate Entl Ratio	(4) Selected Ultimate Entl Ratio Low	(5) Selected Ultimate Entl Ratio High	(6) # Additional Claims Low	(7) # Additional Claims High
1970	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1971	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1972	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1973	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%				80.0%	0.0%	80.0%	80.0%	80.0%	-	-
1974	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%					100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1975	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1976	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%							50.0%	0.0%	50.0%	50.0%	50.0%	-	-
1977	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%								100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1978	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1980	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%											83.3%	0.0%	83.3%	83.3%	83.3%	-	-
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1983	0.0%	0.0%	0.0%	0.0%	0.0%														0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1984	50.0%	50.0%	50.0%	50.0%															50.0%	0.0%	50.0%	50.0%	50.0%	-	-
1985	60.0%	60.0%	60.0%																60.0%	0.0%	60.0%	60.0%	60.0%	-	-
1986	0.0%	0.0%																	0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1987	0.0%																		0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1988																			0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1989																			0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1990																			0.0%	1.0%	1.0%	1.0%	1.0%	-	-
1991																			0.0%	5.8%	5.8%	5.8%	5.8%	0.1	0.1
1992																			0.0%	5.8%	5.8%	5.8%	5.8%	-	-
1993																			0.0%	10.1%	10.1%	10.1%	10.1%	-	-
1994																			0.0%	10.1%	10.1%	10.1%	10.1%	0.2	0.2
1995																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1996																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1997																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1998																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1999																			0.0%	11.6%	11.6%	11.6%	11.6%	-	-
2000																			0.0%	11.6%	11.6%	11.6%	11.6%	-	-
2001																			0.0%	11.6%	11.6%	11.6%	11.6%	0.2	0.2
2002																			0.0%	12.6%	12.6%	12.6%	12.6%	0.2	0.2
2003																			0.0%	12.6%	12.6%	12.6%	12.6%	0.2	0.2
2004																			0.0%	12.6%	12.6%	12.6%	12.6%	-	-
2005																			0.0%	13.2%	13.2%	13.2%	13.2%	-	-
2006																			0.0%	13.7%	13.7%	10.0%	15.0%	-	0.3
2007																			0.0%	15.6%	15.6%	10.0%	15.0%	-	0.3
2008																			0.0%	16.1%	16.1%	10.0%	15.0%	0.3	0.3
2009																			0.0%	16.1%	16.1%	10.0%	15.0%	-	0.3
2010																			0.0%	18.3%	18.3%	10.0%	15.0%	-	0.3
2011																			0.0%	19.6%	19.6%	10.0%	15.0%	-	0.3
																						TOTAL		1.1	2.6

(2) From SECTION 8, EXHIBITS 7.3 AND 7.4
(3) = (1) + (2)
(4), (5) SELECTED BY DELOITTE
(6) = [(4) - (1)]* SECTION 8, EXHIBIT 3, SHEET 5.2, COL (4)
(7) = [(5) - (1)]* SECTION 8, EXHIBIT 3, SHEET 5.2, COL (4)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Incremental Living Widow Entitlement Ratios

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-
1972	0.333	0.333	-	-	0.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	0.200	0.200	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	0.200	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-
1978	-	0.333	-	-	-	-	-	-	-	0.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	0.167	0.167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	0.200	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
1998	-	-	-	-	-	-	-	-	-	-	-	-	-											
1999	-	-	-	-	-	-	-	-	-	-	-	-												
2000	-	-	-	-	-	-	-	-	-	-	-													
2001	-	-	-	-	-	-	-	-	-	-														
2002	-	-	-	-	-	-	-	-	-															
2003	-	-	-	-	-	-	-	-																
2004	-	-	-	-	-	-	-																	
2005	-	-	-	-	-	-																		
2006	-	-	-	-	-																			
2007	-	-	-	-																				
2008	-	-	-																					
2009	-	-																						
2010	-																							
All Yr Wtd Avg	0.013	0.022	-	0.005	0.019	0.005	0.006	-	-	0.010	-	-	0.007	-	-	-	0.008	-	0.043	-	0.048	0.010	-	-
10 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-
Selected A-A	0.013	0.022	-	0.005	0.019	0.005	0.006	-	-	0.010	-	-	0.007	-	-	-	0.008	-	0.043	-	0.048	0.010	-	-
Cumulative	0.196	0.183	0.161	0.161	0.156	0.137	0.132	0.126	0.126	0.126	0.116	0.116	0.116	0.109	0.109	0.109	0.109	0.101	0.101	0.058	0.058	0.010	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

Incremental Living Widow Entitlement Ratios

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1974	-	-	-	-	-	-	-	-	-	-	-	-	-				
1975	-	-	-	-	-	-	-	-	-	-	-	-					
1976	-	-	-	-	-	-	-	-	-	-	-						
1977	-	-	-	-	-	-	-	-	-	-							
1978	-	-	-	-	-	-	-	-	-								
1979	-	-	-	-	-	-	-	-									
1980	-	-	-	-	-	-	-										
1981	-	-	-	-	-	-											
1982	-	-	-	-	-												
1983	-	-	-	-													
1984	-	-	-														
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2007																	
2008																	
2009																	
2010																	
All Yr Wtd Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 yr Wgt Avg	-	-	-	-	-	-	-	-									
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-				
Selected A-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

UNPAID LOSSES FOR PENDING AND IBNR CLAIMS BASED ON OHIO EMPLOYEE SURVEY DATA, TERMINATED MINERS - LOW ESTIMATE

	LOW
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	10%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF TERMINATED MINERS	AVERAGE AGE	% OF MINERS	NUMBER OF MINERS	NUMBER OF MINER CLAIMS	NUMBER OF SURVIVOR CLAIMS	MINER INDEMNITY PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	TOTAL INDEMNITY	TOTAL MEDICAL	TOTAL	% ACCRUED	ACCRUED LIABILITY
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
14 - 19	17	0.1%	3	-	-	586,984	338,893	1,543,492	-	-	-	100%	-
20 - 24	23	5.8%	217	22	4	496,775	275,293	1,099,580	12,030,233	24,190,757	36,220,990	100%	36,220,990
25 - 29	27	8.9%	330	33	6	445,216	238,286	878,543	16,121,858	28,991,933	45,113,791	100%	45,113,791
30 - 34	32	12.1%	451	45	8	388,839	197,672	664,689	19,079,117	29,910,990	48,990,107	100%	48,990,107
35 - 39	37	11.1%	414	41	7	339,724	163,432	503,074	15,072,706	20,626,032	35,698,738	100%	35,698,738
40 - 44	42	10.4%	387	39	7	297,673	133,377	381,858	12,542,878	14,892,450	27,435,328	100%	27,435,328
45 - 49	47	9.1%	339	34	6	256,440	107,955	287,348	9,366,685	9,769,816	19,136,501	100%	19,136,501
50 - 54	52	8.8%	327	33	6	223,196	83,080	218,459	7,863,935	7,209,146	15,073,081	100%	15,073,081
55 - 59	57	10.0%	372	37	7	197,487	56,329	169,084	7,701,333	6,256,121	13,957,454	100%	13,957,454
60 - 64	62	9.6%	355	36	6	173,519	31,168	131,405	6,433,691	4,730,571	11,164,262	100%	11,164,262
65 - 69	67	6.2%	229	23	4	139,296	19,822	95,925	3,283,107	2,206,270	5,489,377	100%	5,489,377
70 - 74	72	3.9%	145	15	3	119,183	-	75,291	1,787,748	1,129,370	2,917,119	100%	2,917,119
75 - 79	77	2.2%	80	8	1	56,324	42,277	35,625	492,868	284,999	777,867	100%	777,867
80 - 84	82	1.4%	53	5	1	73,492	-	42,648	367,460	213,238	580,698	100%	580,698
85 - 89	88	0.3%	12	1	-	73,492	-	42,648	73,492	42,648	116,140	100%	116,140
TOTAL			**3,714**	**372**	**66**				**112,217,113**	**150,454,341**	**262,671,453**		**262,671,453**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	TOTAL INDEMNITY	TOTAL MEDICAL	TOTAL	% ACCRUED	ACCRUED LIABILITY
(7A)	(8A)	(9A)	(10A)	(11A)	(12A)	(13A)	(14A)
67,470	29,621	181,919	-	-	-	100%	-
72,251	30,364	163,984	1,710,977	3,607,640	5,318,616	100%	5,318,616
75,751	30,674	153,275	2,683,823	5,058,063	7,741,886	100%	7,741,886
80,492	30,846	141,089	3,868,904	6,348,989	10,217,893	100%	10,217,893
85,561	30,899	129,919	3,724,296	5,326,674	9,050,970	100%	9,050,970
91,213	30,505	119,980	3,770,831	4,679,218	8,450,049	100%	8,450,049
93,231	29,671	107,914	3,347,870	3,669,064	7,016,934	100%	7,016,934
96,561	27,309	98,142	3,350,366	3,238,686	6,589,053	100%	6,589,053
101,503	21,798	90,655	3,908,211	3,354,240	7,262,451	100%	7,262,451
103,458	13,979	82,321	3,808,345	2,963,542	6,771,887	100%	6,771,887
91,800	10,024	66,977	2,151,504	1,540,478	3,691,983	100%	3,691,983
86,528	-	58,225	1,297,925	873,375	2,171,300	100%	2,171,300
40,138	27,068	26,969	348,174	215,751	563,924	100%	563,924
58,912	-	36,316	294,561	181,582	476,143	100%	476,143
58,912	-	36,316	58,912	36,316	95,229	100%	95,229
	TOTAL		**34,324,699**	**41,093,619**	**75,418,318**		**75,418,318**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8, EXHIBIT 4, SHEET 4, COL. (26)
(7A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. (26)
(8) SECTION 8, EXHIBIT 4, SHEET 4, COL. (28)
(8A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. (28)
(9) SECTION 8, EXHIBIT 4, SHEET 4, COL. (27)
(9A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) TERMINATED MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

UNPAID LOSSES FOR PENDING AND IBNR CLAIMS BASED ON OHIO EMPLOYEE SURVEY DATA, TERMINATED MINERS - HIGH ESTIMATE

	HIGH
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	15%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF TERMINATED MINERS	AVERAGE AGE	% OF MINERS	NUMBER OF MINERS	NUMBER OF MINER CLAIMS	NUMBER OF SURVIVOR CLAIMS	MINER INDEMNITY PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	TOTAL INDEMNITY	TOTAL MEDICAL	TOTAL	% ACCRUED	ACCRUED LIABILITY
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
14 - 19	17	0.1%	3	-	-	586,984	338,893	1,543,492	-	-	-	100%	-
20 - 24	23	5.8%	217	33	6	496,775	275,293	1,099,580	18,045,350	36,286,135	54,331,486	100%	54,331,486
25 - 29	27	8.9%	330	50	9	445,216	238,286	878,543	24,405,395	43,927,172	68,332,566	100%	68,332,566
30 - 34	32	12.1%	451	68	12	388,839	197,672	664,689	28,813,094	45,198,829	74,011,923	100%	74,011,923
35 - 39	37	11.1%	414	62	11	339,724	163,432	503,074	22,860,637	31,190,585	54,051,222	100%	54,051,222
40 - 44	42	10.4%	387	58	10	297,673	133,377	381,858	18,598,793	22,147,746	40,746,538	100%	40,746,538
45 - 49	47	9.1%	339	51	9	256,440	107,955	287,348	14,050,028	14,654,724	28,704,752	100%	28,704,752
50 - 54	52	8.8%	327	49	9	223,196	83,080	218,459	11,684,304	10,704,490	22,388,794	100%	22,388,794
55 - 59	57	10.0%	372	56	10	197,487	56,329	169,084	11,622,579	9,468,724	21,091,303	100%	21,091,303
60 - 64	62	9.6%	355	53	10	173,519	31,168	131,405	9,508,186	6,964,452	16,472,638	100%	16,472,638
65 - 69	67	6.2%	229	34	6	139,296	19,822	95,925	4,855,012	3,261,443	8,116,455	100%	8,116,455
70 - 74	72	3.9%	145	22	4	119,183	-	75,291	2,622,031	1,656,410	4,278,441	100%	4,278,441
75 - 79	77	2.2%	80	12	2	56,324	42,277	35,625	760,441	427,498	1,187,939	100%	1,187,939
80 - 84	82	1.4%	53	8	1	73,492	-	42,648	587,936	341,181	929,117	100%	929,117
85 - 89	88	0.3%	12	2	-	73,492	-	42,648	146,984	85,295	232,279	100%	232,279
TOTAL			**3,714**	**558**	**99**				**168,560,771**	**226,314,683**	**394,875,453**		**394,875,453**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	TOTAL INDEMNITY	TOTAL MEDICAL	TOTAL	% ACCRUED	ACCRUED LIABILITY
(7A)	(8A)	(9A)	(10A)	(11A)	(12A)	(13A)	(14A)
67,470	29,621	181,919	-	-	-	100%	-
72,251	30,364	163,984	2,566,465	5,411,460	7,977,925	100%	7,977,925
75,751	30,674	153,275	4,063,610	7,663,732	11,727,342	100%	11,727,342
80,492	30,846	141,089	5,843,602	9,594,027	15,437,629	100%	15,437,629
85,561	30,899	129,919	5,644,674	8,054,971	13,699,645	100%	13,699,645
91,213	30,505	119,980	5,595,387	6,958,837	12,554,225	100%	12,554,225
93,231	29,671	107,914	5,021,805	5,503,595	10,525,401	100%	10,525,401
96,561	27,309	98,142	4,977,269	4,808,959	9,786,228	100%	9,786,228
101,503	21,798	90,655	5,902,169	5,076,688	10,978,857	100%	10,978,857
103,458	13,979	82,321	5,623,038	4,362,992	9,986,030	100%	9,986,030
91,800	10,024	66,977	3,181,356	2,277,229	5,458,585	100%	5,458,585
86,528	-	58,225	1,903,624	1,280,950	3,184,573	100%	3,184,573
40,138	27,068	26,969	535,795	323,626	859,421	100%	859,421
58,912	-	36,316	471,298	290,532	761,830	100%	761,830
58,912	-	36,316	117,825	72,633	190,457	100%	190,457
	TOTAL		**51,447,917**	**61,680,231**	**113,128,148**		**113,128,148**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8, EXHIBIT 4, SHEET 4, COL. (26)
(7A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. 26)
(8) SECTION 8, EXHIBIT 4, SHEET 4, COL. (28)
(8A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. (28)
(9) SECTION 8, EXHIBIT 4, SHEET 4, COL. (27)
(9A) SECTION 8, EXHIBIT 4, SHEET 4A, COL. 27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) TERMINATED MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 42

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	383,803	991,197	786,810	585,774
DISCOUNTED	190,974	378,924	279,974	249,312

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	2.094	4.292	0.375	24.0%	0.942	0.058	498,753	222,341	45,796	16,296	1,044,278	2,367,735	95,887	174,629	378,019	12,799
23	1.754	3.026	0.475	24.0%	0.952	0.048	504,015	224,686	37,979	13,514	883,793	1,686,768	66,597	187,004	340,750	11,248
27	1.558	2.397	0.555	24.0%	0.960	0.040	508,397	226,640	31,468	11,197	792,066	1,347,696	49,026	196,062	318,497	9,687
32	1.344	1.791	0.676	24.0%	0.972	0.028	514,739	229,467	22,045	7,844	691,767	1,019,640	29,627	208,334	293,175	7,122
37	1.159	1.338	0.822	24.0%	0.984	0.016	521,351	232,415	12,222	4,349	604,389	771,721	14,168	221,454	269,965	4,144
42	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
47	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
52	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
57	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
62	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
67	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
72	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
77	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
82	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
88	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-

(1) SECTION 8, EXHIBIT 4, SHEET 3A, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3A, ROW 18
(3) SECTION 8, EXHIBIT 4, SHEET 3A, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 4, SHEET 3A, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 47

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	305,355	822,711	659,482	424,276
DISCOUNTED	166,695	344,383	257,601	204,163

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	2.427	5.743	0.308	24.0%	0.916	0.084	393,502	191,786	55,303	21,602	955,132	2,232,480	134,235	143,527	331,219	16,166
23	2.033	4.049	0.390	24.0%	0.926	0.074	397,653	193,809	48,929	19,112	808,347	1,590,412	99,463	153,697	298,564	15,157
27	1.806	3.207	0.456	24.0%	0.934	0.066	401,111	195,494	43,621	17,039	724,450	1,270,709	78,784	161,143	279,066	14,045
32	1.558	2.397	0.555	24.0%	0.946	0.054	406,115	197,933	35,938	14,038	632,713	961,394	55,990	171,228	256,879	12,144
37	1.344	1.791	0.676	24.0%	0.958	0.042	411,331	200,475	27,928	10,909	552,794	727,637	37,533	182,012	236,543	9,904
42	1.159	1.338	0.822	24.0%	0.973	0.027	417,821	203,638	17,963	7,017	484,369	552,312	20,825	194,035	218,447	6,686
47	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
52	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
57	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
62	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
67	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
72	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
77	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
82	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
88	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-

(1) SECTION 8, EXHIBIT 4, SHEET 3B, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3B, ROW 18
(3) SECTION 8, EXHIBIT 4, SHEET 3B, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 4, SHEET 3B, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 52

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	238,843	667,903	539,582	304,005
DISCOUNTED	142,407	307,787	233,195	164,085

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	2.814	7.686	0.253	24.0%	0.880	0.120	300,951	160,327	64,510	27,880	846,834	2,057,250	181,523	114,326	281,390	19,881
23	2.357	5.418	0.321	24.0%	0.890	0.110	304,126	162,019	59,499	25,714	716,692	1,465,580	140,213	122,427	253,648	19,430
27	2.094	4.292	0.375	24.0%	0.897	0.103	306,770	163,427	55,324	23,910	642,309	1,170,970	115,837	128,358	237,083	18,779
32	1.806	3.207	0.456	24.0%	0.909	0.091	310,597	165,466	49,283	21,299	560,973	885,933	89,011	136,391	218,234	17,557
37	1.558	2.397	0.555	24.0%	0.920	0.080	314,587	167,592	42,985	18,577	490,116	670,524	66,970	144,981	200,957	16,071
42	1.344	1.791	0.676	24.0%	0.935	0.065	319,550	170,236	35,150	15,191	429,449	508,961	47,239	154,558	185,583	13,792
47	1.159	1.338	0.822	24.0%	0.961	0.039	328,498	175,003	21,025	9,087	380,819	390,975	24,374	166,749	173,448	8,658
52	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
57	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
62	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
67	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
72	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
77	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
82	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
88	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-

(1) SECTION 8, EXHIBIT 4, SHEET 3C, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3C, ROW 18
(3) SECTION 8, EXHIBIT 4, SHEET 3C, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 4, SHEET 3C, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 57

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	184,009	534,051	434,507	216,071
DISCOUNTED	119,170	270,646	207,719	129,634

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	3.262	10.286	0.208	24.0%	0.825	0.175	221,168	128,338	75,955	36,311	721,457	1,833,950	247,767	87,199	229,179	24,671
23	2.732	7.251	0.264	24.0%	0.834	0.166	223,501	129,691	72,172	34,502	610,583	1,306,501	197,167	93,378	206,585	24,842
27	2.427	5.743	0.308	24.0%	0.841	0.159	225,444	130,819	69,022	32,996	547,212	1,043,870	167,533	97,901	193,093	24,693
32	2.094	4.292	0.375	24.0%	0.852	0.148	228,257	132,451	64,462	30,817	477,919	789,771	134,969	104,029	177,742	24,204
37	1.806	3.207	0.456	24.0%	0.863	0.137	231,188	134,152	59,709	28,544	417,552	597,744	107,841	110,580	163,670	23,529
42	1.558	2.397	0.555	24.0%	0.876	0.124	234,836	136,269	53,795	25,717	365,867	453,717	83,811	117,884	151,149	22,247
47	1.344	1.791	0.676	24.0%	0.901	0.099	241,412	140,085	43,135	20,621	324,438	348,537	57,969	127,183	141,266	18,722
52	1.159	1.338	0.822	24.0%	0.937	0.063	251,200	145,765	27,266	13,035	291,210	271,007	31,609	138,890	133,640	12,420
57	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
62	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
67	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
72	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
77	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
82	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
88	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-

(1) SECTION 8, EXHIBIT 4, SHEET 3D, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3D, ROW 18
(3) SECTION 8, EXHIBIT 4, SHEET 3D, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 4, SHEET 3D, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 62

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	139,164	420,596	344,622	151,934
DISCOUNTED	97,268	233,557	181,646	100,315

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	3.782	13.765	0.171	24.0%	0.745	0.255	153,982	96,824	87,904	46,333	582,297	1,557,872	332,419	62,684	176,094	29,996
23	3.167	9.704	0.217	24.0%	0.753	0.247	155,606	97,845	85,196	44,906	492,809	1,109,824	269,819	67,126	158,732	30,807
27	2.814	7.686	0.253	24.0%	0.759	0.241	156,959	98,696	82,941	43,717	441,662	886,728	233,383	70,378	148,366	31,173
32	2.427	5.743	0.308	24.0%	0.769	0.231	158,917	99,927	79,676	41,996	385,734	670,881	193,395	74,782	136,571	31,429
37	2.094	4.292	0.375	24.0%	0.779	0.221	160,959	101,211	76,273	40,202	337,011	507,761	159,698	79,492	125,759	31,575
42	1.806	3.207	0.456	24.0%	0.791	0.209	163,498	102,808	72,039	37,971	295,296	385,415	130,110	84,743	116,138	31,299
47	1.558	2.397	0.555	24.0%	0.813	0.187	168,076	105,686	64,406	33,948	261,858	296,069	100,342	91,428	108,544	29,367
52	1.344	1.791	0.676	24.0%	0.846	0.154	174,891	109,971	53,045	27,959	235,039	230,210	71,287	99,843	102,684	25,384
57	1.159	1.338	0.822	24.0%	0.903	0.097	186,601	117,334	33,522	17,669	216,321	183,544	38,862	111,801	99,606	16,836
62	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
67	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
72	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
77	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
82	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
88	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-

(1) SECTION 8, EXHIBIT 4, SHEET 3E, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3E, ROW 18
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 67

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	103,933	326,510	269,195	106,419
DISCOUNTED	77,791	197,793	155,777	76,463

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	4.384	18.420	0.141	24.0%	0.629	0.371	98,918	67,008	99,968	57,849	433,646	1,232,303	438,250	41,335	124,589	35,685
23	3.671	12.985	0.178	24.0%	0.635	0.365	99,961	67,715	98,183	56,816	367,003	877,889	360,473	44,264	112,306	37,140
27	3.262	10.286	0.208	24.0%	0.641	0.359	100,830	68,304	96,696	55,955	328,913	701,417	315,425	46,409	104,971	38,019
32	2.814	7.686	0.253	24.0%	0.649	0.351	102,088	69,156	94,544	54,710	287,262	530,678	266,033	49,313	96,626	39,013
37	2.427	5.743	0.308	24.0%	0.657	0.343	103,400	70,044	92,300	53,412	250,978	401,647	224,037	52,419	88,976	39,972
42	2.094	4.292	0.375	24.0%	0.667	0.333	105,031	71,149	89,509	51,797	219,912	304,870	187,412	55,881	82,169	40,682
47	1.806	3.207	0.456	24.0%	0.686	0.314	107,972	73,141	84,478	48,885	195,010	234,196	152,576	60,289	76,796	40,295
52	1.558	2.397	0.555	24.0%	0.714	0.286	112,350	76,107	76,988	44,551	175,037	182,100	119,945	65,839	72,651	38,541
57	1.344	1.791	0.676	24.0%	0.762	0.238	119,872	81,203	64,119	37,104	161,098	145,187	86,171	73,724	70,473	33,687
62	1.159	1.338	0.822	24.0%	0.844	0.156	132,789	89,953	42,022	24,317	153,939	120,182	48,715	85,710	70,975	23,170
67	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
72	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
77	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
82	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
88	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-

(1) SECTION 8, EXHIBIT 4, SHEET 3F, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3F, ROW 18
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 72

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	77,740	250,420	207,205	75,291
DISCOUNTED	61,827	164,748	131,012	58,225

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	5.082	24.650	0.116	24.0%	0.474	0.526	56,521	41,035	108,941	68,882	287,247	880,157	553,656	24,119	78,721	40,487
23	4.256	17.378	0.146	24.0%	0.479	0.521	57,117	41,468	107,905	68,226	243,102	627,022	459,267	25,828	70,960	42,495
27	3.782	13.765	0.171	24.0%	0.483	0.517	57,614	41,828	107,041	67,680	217,871	500,978	404,787	27,080	66,326	43,816
32	3.262	10.286	0.208	24.0%	0.489	0.511	58,332	42,350	105,792	66,890	190,282	379,030	345,097	28,775	61,053	45,448
37	2.814	7.686	0.253	24.0%	0.496	0.504	59,082	42,894	104,489	66,067	166,248	286,872	294,018	30,587	56,219	47,111
42	2.427	5.743	0.308	24.0%	0.504	0.496	60,014	43,571	102,868	65,042	145,669	217,750	249,689	32,607	51,918	48,675
47	2.094	4.292	0.375	24.0%	0.518	0.482	61,694	44,791	99,947	63,195	129,174	167,271	209,267	35,179	48,524	49,634
52	1.806	3.207	0.456	24.0%	0.539	0.461	64,196	46,607	95,598	60,445	115,945	130,063	172,661	38,417	45,904	49,824
57	1.558	2.397	0.555	24.0%	0.575	0.425	68,494	49,727	88,126	55,720	106,711	103,698	137,297	43,018	44,528	48,203
62	1.344	1.791	0.676	24.0%	0.637	0.363	75,874	55,086	75,294	47,607	101,969	85,839	101,189	50,012	44,845	43,223
67	1.159	1.338	0.822	24.0%	0.754	0.246	89,909	65,275	50,894	32,179	104,230	76,009	59,000	62,197	48,313	30,662
72	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-
77	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-
82	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-
88	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-

(1) SECTION 8, EXHIBIT 4, SHEET 3G, ROW 17
(2) SECTION 8, EXHIBIT 4, SHEET 3G, ROW 18
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(4) SECTION 8, EXHIBIT 4, SHEET 3G, ROW 23
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(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 80

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	47,349	156,280	129,553	42,648
DISCOUNTED	40,874	116,033	93,303	36,316

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
17	6.438	39.289	0.085	24.0%	0.219	0.781	16,072	12,884	101,220	72,898	103,472	366,440	651,646	7,010	26,370	39,661
23	5.392	27.697	0.107	24.0%	0.221	0.779	16,242	13,020	100,921	72,683	87,571	261,051	544,132	7,506	23,770	41,904
27	4.790	21.939	0.125	24.0%	0.223	0.777	16,383	13,133	100,672	72,503	78,482	208,575	482,262	7,870	22,218	43,447
32	4.132	16.394	0.152	24.0%	0.226	0.774	16,587	13,297	100,312	72,244	68,544	157,803	414,514	8,362	20,451	45,435
37	3.565	12.250	0.185	24.0%	0.229	0.771	16,801	13,468	99,936	71,973	59,886	119,435	356,225	8,889	18,832	47,505
42	3.075	9.154	0.225	24.0%	0.232	0.768	17,066	13,680	99,469	71,637	52,473	90,657	305,846	9,476	17,392	49,623
47	2.652	6.841	0.274	24.0%	0.239	0.761	17,544	14,063	98,627	71,030	46,531	69,641	261,591	10,224	16,254	51,638
52	2.288	5.112	0.333	24.0%	0.248	0.752	18,255	14,633	97,373	70,127	41,766	54,150	222,782	11,165	15,377	53,505
57	1.974	3.820	0.406	24.0%	0.265	0.735	19,477	15,613	95,218	68,576	38,440	43,173	187,921	12,502	14,916	54,911
62	1.702	2.854	0.494	24.0%	0.294	0.706	21,576	17,295	91,519	65,911	36,731	35,738	155,804	14,535	15,022	55,390
67	1.469	2.133	0.601	24.0%	0.348	0.652	25,567	20,495	84,483	60,844	37,546	31,645	124,066	18,076	16,184	53,662
72	1.267	1.594	0.731	24.0%	0.461	0.539	33,891	27,168	69,809	50,276	42,932	31,346	88,432	25,147	19,504	46,536
77	1.093	1.191	0.889	24.0%	0.701	0.299	51,544	41,319	38,690	27,864	56,324	35,625	42,277	40,138	26,969	27,068
82	1.000	1.000	1.000	24.0%	1.000	-	73,492	58,912	-	-	73,492	42,648	-	58,912	36,316	-
88	1.000	1.000	1.000	24.0%	1.000	-	73,492	58,912	-	-	73,492	42,648	-	58,912	36,316	-

(1) SECTION 8, EXHIBIT 4, SHEET 3H, ROW 17
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 42

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	42.00	M		
	CLAIMANT 2 (y)	38.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			51.12	25.44
(12)	APV FOR CLAIMANT 2			104.81	37.29
(13)	APV FOR BOTH CLAIMANTS ALIVE			47.78	24.51
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			60.37	13.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			383,803	190,974
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			991,197	378,924
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			97.629	41.552
(23)	APV OF MEDICAL BENEFIT			585,774	249,312

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.004	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.005	0.001	0.996	0.999	0.995	0.005	0.962	1.030	1.060
2	0.006	0.001	0.991	0.999	0.990	0.010	0.925	1.061	1.124
3	0.006	0.001	0.985	0.998	0.984	0.016	0.889	1.093	1.191
4	0.007	0.001	0.979	0.997	0.977	0.023	0.855	1.126	1.262
5	0.007	0.001	0.973	0.996	0.969	0.031	0.822	1.159	1.338
6	0.007	0.001	0.966	0.996	0.962	0.038	0.790	1.194	1.419
7	0.008	0.001	0.959	0.995	0.954	0.046	0.760	1.230	1.504
8	0.008	0.001	0.952	0.994	0.946	0.054	0.731	1.267	1.594
9	0.009	0.001	0.944	0.993	0.937	0.063	0.703	1.305	1.689
10	0.010	0.001	0.935	0.992	0.927	0.072	0.676	1.344	1.791
11	0.012	0.001	0.925	0.990	0.916	0.083	0.650	1.384	1.898
12	0.013	0.001	0.914	0.989	0.904	0.095	0.625	1.426	2.012
13	0.014	0.002	0.903	0.988	0.891	0.107	0.601	1.469	2.133
14	0.015	0.002	0.890	0.986	0.878	0.121	0.577	1.513	2.261
15	0.017	0.002	0.876	0.984	0.863	0.136	0.555	1.558	2.397
16	0.018	0.002	0.861	0.983	0.846	0.151	0.534	1.605	2.540
17	0.020	0.002	0.846	0.980	0.829	0.168	0.513	1.653	2.693
18	0.022	0.003	0.829	0.978	0.811	0.186	0.494	1.702	2.854
19	0.024	0.003	0.811	0.976	0.791	0.205	0.475	1.754	3.026
20	0.027	0.003	0.791	0.973	0.770	0.225	0.456	1.806	3.207
21	0.030	0.004	0.770	0.970	0.746	0.247	0.439	1.860	3.400
22	0.033	0.004	0.747	0.966	0.722	0.270	0.422	1.916	3.604
23	0.037	0.005	0.723	0.962	0.695	0.295	0.406	1.974	3.820
24	0.041	0.006	0.696	0.957	0.666	0.321	0.390	2.033	4.049
25	0.046	0.007	0.667	0.951	0.635	0.349	0.375	2.094	4.292
26	0.050	0.008	0.637	0.945	0.602	0.378	0.361	2.157	4.549
27	0.055	0.009	0.605	0.938	0.567	0.408	0.347	2.221	4.822
28	0.059	0.010	0.572	0.929	0.532	0.438	0.333	2.288	5.112
29	0.064	0.011	0.538	0.920	0.495	0.468	0.321	2.357	5.418
30	0.069	0.012	0.504	0.911	0.458	0.497	0.308	2.427	5.743
31	0.074	0.013	0.469	0.900	0.422	0.525	0.296	2.500	6.088
32	0.080	0.014	0.434	0.888	0.386	0.551	0.285	2.575	6.453
33	0.086	0.015	0.400	0.876	0.350	0.575	0.274	2.652	6.841
34	0.094	0.017	0.365	0.863	0.315	0.598	0.264	2.732	7.251
35	0.102	0.018	0.331	0.849	0.281	0.618	0.253	2.814	7.686
36	0.111	0.020	0.297	0.833	0.248	0.635	0.244	2.898	8.147
37	0.121	0.023	0.264	0.816	0.216	0.649	0.234	2.985	8.636
38	0.131	0.025	0.232	0.798	0.185	0.659	0.225	3.075	9.154
39	0.141	0.028	0.202	0.778	0.157	0.666	0.217	3.167	9.704
40	0.151	0.032	0.173	0.756	0.131	0.667	0.208	3.262	10.286
41	0.162	0.035	0.147	0.732	0.108	0.663	0.200	3.360	10.903
42	0.173	0.039	0.123	0.706	0.087	0.655	0.193	3.461	11.557
43	0.186	0.044	0.102	0.678	0.069	0.642	0.185	3.565	12.250
44	0.201	0.049	0.083	0.648	0.054	0.624	0.178	3.671	12.985
45	0.218	0.055	0.066	0.616	0.041	0.601	0.171	3.782	13.765
46	0.237	0.061	0.052	0.582	0.030	0.574	0.165	3.895	14.590
47	0.258	0.068	0.040	0.547	0.022	0.543	0.158	4.012	15.466
48	0.282	0.075	0.029	0.510	0.015	0.509	0.152	4.132	16.394
49	0.309	0.084	0.021	0.471	0.010	0.473	0.146	4.256	17.378
50	0.339	0.094	0.015	0.432	0.006	0.434	0.141	4.384	18.420
51	0.371	0.105	0.010	0.391	0.004	0.393	0.135	4.515	19.525
52	0.406	0.116	0.006	0.350	0.002	0.352	0.130	4.651	20.697
53	0.444	0.129	0.004	0.310	0.001	0.311	0.125	4.790	21.939
54	0.475	0.142	0.002	0.270	0.001	0.271	0.120	4.934	23.255
55	0.506	0.156	0.001	0.231	0.000	0.232	0.116	5.082	24.650
56	0.539	0.171	0.001	0.195	0.000	0.196	0.111	5.235	26.129
57	0.575	0.186	0.000	0.162	0.000	0.162	0.107	5.392	27.697
58	0.616	0.203	0.000	0.132	0.000	0.132	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 47

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	47.00	M		
	CLAIMANT 2 (y)	43.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			40.68	22.20
(12)	APV FOR CLAIMANT 2			87.85	34.31
(13)	APV FOR BOTH CLAIMANTS ALIVE			37.85	21.28
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			52.82	13.95
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			305,355	166,695
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			822,711	344,383
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			70.713	34.027
(23)	APV OF MEDICAL BENEFIT			424,276	204,163

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.007	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.007	0.001	0.993	0.999	0.992	0.008	0.962	1.030	1.060
2	0.008	0.001	0.986	0.998	0.984	0.016	0.925	1.061	1.124
3	0.008	0.001	0.978	0.997	0.976	0.024	0.889	1.093	1.191
4	0.009	0.001	0.970	0.996	0.966	0.033	0.855	1.126	1.262
5	0.010	0.001	0.961	0.995	0.956	0.043	0.822	1.159	1.338
6	0.012	0.001	0.951	0.994	0.945	0.054	0.790	1.194	1.419
7	0.013	0.001	0.940	0.993	0.933	0.067	0.760	1.230	1.504
8	0.014	0.002	0.928	0.991	0.920	0.080	0.731	1.267	1.594
9	0.015	0.002	0.915	0.990	0.905	0.094	0.703	1.305	1.689
10	0.017	0.002	0.901	0.988	0.890	0.109	0.676	1.344	1.791
11	0.018	0.002	0.886	0.986	0.873	0.125	0.650	1.384	1.898
12	0.020	0.002	0.869	0.984	0.855	0.142	0.625	1.426	2.012
13	0.022	0.003	0.852	0.982	0.836	0.161	0.601	1.469	2.133
14	0.024	0.003	0.833	0.979	0.816	0.181	0.577	1.513	2.261
15	0.027	0.003	0.813	0.976	0.794	0.202	0.555	1.558	2.397
16	0.030	0.004	0.791	0.973	0.770	0.224	0.534	1.605	2.540
17	0.033	0.004	0.768	0.969	0.744	0.248	0.513	1.653	2.693
18	0.037	0.005	0.743	0.965	0.717	0.274	0.494	1.702	2.854
19	0.041	0.006	0.715	0.960	0.687	0.302	0.475	1.754	3.026
20	0.046	0.007	0.686	0.954	0.655	0.331	0.456	1.806	3.207
21	0.050	0.008	0.655	0.948	0.621	0.361	0.439	1.860	3.400
22	0.055	0.009	0.622	0.941	0.585	0.392	0.422	1.916	3.604
23	0.059	0.010	0.588	0.933	0.548	0.424	0.406	1.974	3.820
24	0.064	0.011	0.553	0.924	0.511	0.455	0.390	2.033	4.049
25	0.069	0.012	0.518	0.914	0.473	0.485	0.375	2.094	4.292
26	0.074	0.013	0.482	0.903	0.435	0.514	0.361	2.157	4.549
27	0.080	0.014	0.447	0.892	0.398	0.542	0.347	2.221	4.822
28	0.086	0.015	0.411	0.879	0.361	0.568	0.333	2.288	5.112
29	0.094	0.017	0.376	0.866	0.325	0.591	0.321	2.357	5.418
30	0.102	0.018	0.340	0.852	0.290	0.612	0.308	2.427	5.743
31	0.111	0.020	0.306	0.836	0.256	0.631	0.296	2.500	6.088
32	0.121	0.023	0.272	0.819	0.222	0.646	0.285	2.575	6.453
33	0.131	0.025	0.239	0.801	0.191	0.657	0.274	2.652	6.841
34	0.141	0.028	0.207	0.780	0.162	0.664	0.264	2.732	7.251
35	0.151	0.032	0.178	0.758	0.135	0.666	0.253	2.814	7.686
36	0.162	0.035	0.151	0.734	0.111	0.663	0.244	2.898	8.147
37	0.173	0.039	0.127	0.708	0.090	0.655	0.234	2.985	8.636
38	0.186	0.044	0.105	0.680	0.071	0.642	0.225	3.075	9.154
39	0.201	0.049	0.085	0.650	0.055	0.625	0.217	3.167	9.704
40	0.218	0.055	0.068	0.618	0.042	0.602	0.208	3.262	10.286
41	0.237	0.061	0.053	0.584	0.031	0.575	0.200	3.360	10.903
42	0.258	0.068	0.041	0.549	0.022	0.545	0.193	3.461	11.557
43	0.282	0.075	0.030	0.512	0.015	0.511	0.185	3.565	12.250
44	0.309	0.084	0.022	0.473	0.010	0.474	0.178	3.671	12.985
45	0.339	0.094	0.015	0.433	0.006	0.435	0.171	3.782	13.765
46	0.371	0.105	0.010	0.393	0.004	0.395	0.165	3.895	14.590
47	0.406	0.116	0.006	0.352	0.002	0.353	0.158	4.012	15.466
48	0.444	0.129	0.004	0.311	0.001	0.312	0.152	4.132	16.394
49	0.475	0.142	0.002	0.271	0.001	0.272	0.146	4.256	17.378
50	0.506	0.156	0.001	0.232	0.000	0.233	0.141	4.384	18.420
51	0.539	0.171	0.001	0.196	0.000	0.196	0.135	4.515	19.525
52	0.575	0.186	0.000	0.163	0.000	0.163	0.130	4.651	20.697
53	0.616	0.203	0.000	0.132	0.000	0.132	0.125	4.790	21.939
54	0.661	0.220	0.000	0.106	0.000	0.106	0.120	4.934	23.255
55	0.713	0.238	0.000	0.082	0.000	0.082	0.116	5.082	24.650
56	0.773	0.257	0.000	0.063	0.000	0.063	0.111	5.235	26.129
57	0.841	0.276	0.000	0.047	0.000	0.047	0.107	5.392	27.697
58	0.918	0.297	0.000	0.034	0.000	0.034	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 52

		Age	Sex
	CLAIMANT 1 (x)	52.00	M
	CLAIMANT 2 (y)	48.00	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(11)	APV FOR CLAIMANT 1	31.82	18.97
(12)	APV FOR CLAIMANT 2	71.88	31.06
(13)	APV FOR BOTH CLAIMANTS ALIVE	29.43	18.06
(14)	APV FOR ONLY 1 CLAIMANT ALIVE	44.82	13.91
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY	238,843	142,407
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.	667,903	307,787
	MEDICAL PAYMENTS		
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT	50.667	27.347
(23)	APV OF MEDICAL BENEFIT	304,005	164,085

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.010	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.012	0.001	0.990	0.999	0.988	0.012	0.962	1.030	1.060
2	0.013	0.001	0.978	0.997	0.976	0.024	0.925	1.061	1.124
3	0.014	0.002	0.966	0.996	0.962	0.038	0.889	1.093	1.191
4	0.015	0.002	0.952	0.994	0.947	0.053	0.855	1.126	1.262
5	0.017	0.002	0.937	0.993	0.930	0.069	0.822	1.159	1.338
6	0.018	0.002	0.922	0.991	0.913	0.086	0.790	1.194	1.419
7	0.020	0.002	0.905	0.989	0.895	0.104	0.760	1.230	1.504
8	0.022	0.003	0.887	0.987	0.875	0.124	0.731	1.267	1.594
9	0.024	0.003	0.867	0.984	0.853	0.145	0.703	1.305	1.689
10	0.027	0.003	0.846	0.981	0.830	0.167	0.676	1.344	1.791
11	0.030	0.004	0.824	0.978	0.805	0.191	0.650	1.384	1.898
12	0.033	0.004	0.799	0.974	0.778	0.216	0.625	1.426	2.012
13	0.037	0.005	0.773	0.970	0.750	0.244	0.601	1.469	2.133
14	0.041	0.006	0.745	0.965	0.718	0.273	0.577	1.513	2.261
15	0.046	0.007	0.714	0.959	0.685	0.303	0.555	1.558	2.397
16	0.050	0.008	0.682	0.953	0.649	0.336	0.534	1.605	2.540
17	0.055	0.009	0.647	0.946	0.612	0.369	0.513	1.653	2.693
18	0.059	0.010	0.612	0.937	0.573	0.402	0.494	1.702	2.854
19	0.064	0.011	0.575	0.928	0.534	0.435	0.475	1.754	3.026
20	0.069	0.012	0.539	0.918	0.495	0.468	0.456	1.806	3.207
21	0.074	0.013	0.502	0.907	0.455	0.499	0.439	1.860	3.400
22	0.080	0.014	0.465	0.896	0.416	0.528	0.422	1.916	3.604
23	0.086	0.015	0.428	0.884	0.378	0.555	0.406	1.974	3.820
24	0.094	0.017	0.391	0.870	0.340	0.581	0.390	2.033	4.049
25	0.102	0.018	0.354	0.856	0.303	0.604	0.375	2.094	4.292
26	0.111	0.020	0.318	0.840	0.267	0.624	0.361	2.157	4.549
27	0.121	0.023	0.283	0.823	0.233	0.641	0.347	2.221	4.822
28	0.131	0.025	0.248	0.805	0.200	0.653	0.333	2.288	5.112
29	0.141	0.028	0.216	0.784	0.169	0.661	0.321	2.357	5.418
30	0.151	0.032	0.185	0.762	0.141	0.665	0.308	2.427	5.743
31	0.162	0.035	0.157	0.738	0.116	0.663	0.296	2.500	6.088
32	0.173	0.039	0.132	0.712	0.094	0.656	0.285	2.575	6.453
33	0.186	0.044	0.109	0.684	0.075	0.644	0.274	2.652	6.841
34	0.201	0.049	0.089	0.654	0.058	0.626	0.264	2.732	7.251
35	0.218	0.055	0.071	0.621	0.044	0.604	0.253	2.814	7.686
36	0.237	0.061	0.055	0.587	0.033	0.578	0.244	2.898	8.147
37	0.258	0.068	0.042	0.552	0.023	0.547	0.234	2.985	8.636
38	0.282	0.075	0.031	0.514	0.016	0.513	0.225	3.075	9.154
39	0.309	0.084	0.023	0.475	0.011	0.477	0.217	3.167	9.704
40	0.339	0.094	0.016	0.435	0.007	0.438	0.208	3.262	10.286
41	0.371	0.105	0.010	0.395	0.004	0.397	0.200	3.360	10.903
42	0.406	0.116	0.006	0.353	0.002	0.355	0.193	3.461	11.557
43	0.444	0.129	0.004	0.312	0.001	0.314	0.185	3.565	12.250
44	0.475	0.142	0.002	0.272	0.001	0.273	0.178	3.671	12.985
45	0.506	0.156	0.001	0.233	0.000	0.234	0.171	3.782	13.765
46	0.539	0.171	0.001	0.197	0.000	0.197	0.165	3.895	14.590
47	0.575	0.186	0.000	0.163	0.000	0.164	0.158	4.012	15.466
48	0.616	0.203	0.000	0.133	0.000	0.133	0.152	4.132	16.394
49	0.661	0.220	0.000	0.106	0.000	0.106	0.146	4.256	17.378
50	0.713	0.238	0.000	0.083	0.000	0.083	0.141	4.384	18.420
51	0.773	0.257	0.000	0.063	0.000	0.063	0.135	4.515	19.525
52	0.841	0.276	0.000	0.047	0.000	0.047	0.130	4.651	20.697
53	0.918	0.297	0.000	0.034	0.000	0.034	0.125	4.790	21.939
54	1.000	0.317	0.000	0.024	0.000	0.024	0.120	4.934	23.255
55	-	0.339	-	0.016	-	0.016	0.116	5.082	24.650
56	-	0.361	-	0.011	-	0.011	0.111	5.235	26.129
57	-	0.384	-	0.007	-	0.007	0.107	5.392	27.697
58	-	0.405	-	0.004	-	0.004	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 57

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	57.00	M		
	CLAIMANT 2 (y)	53.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			24.51	15.87
(12)	APV FOR CLAIMANT 2			57.88	27.67
(13)	APV FOR BOTH CLAIMANTS ALIVE			22.50	14.98
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			37.40	13.59
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			184,009	119,170
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			534,051	270,646
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			36.012	21.606
(23)	APV OF MEDICAL BENEFIT			216,071	129,634

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	0.002	0.983	0.998	0.981	0.019	0.962	1.030	1.060
2	0.020	0.002	0.965	0.996	0.961	0.039	0.925	1.061	1.124
3	0.022	0.003	0.946	0.994	0.940	0.060	0.889	1.093	1.191
4	0.024	0.003	0.925	0.991	0.917	0.082	0.855	1.126	1.262
5	0.027	0.003	0.903	0.988	0.892	0.107	0.822	1.159	1.338
6	0.030	0.004	0.879	0.985	0.865	0.133	0.790	1.194	1.419
7	0.033	0.004	0.853	0.981	0.837	0.161	0.760	1.230	1.504
8	0.037	0.005	0.825	0.977	0.806	0.190	0.731	1.267	1.594
9	0.041	0.006	0.794	0.972	0.772	0.222	0.703	1.305	1.689
10	0.046	0.007	0.762	0.966	0.736	0.256	0.676	1.344	1.791
11	0.050	0.008	0.727	0.960	0.698	0.291	0.650	1.384	1.898
12	0.055	0.009	0.691	0.952	0.658	0.327	0.625	1.426	2.012
13	0.059	0.010	0.653	0.944	0.616	0.364	0.601	1.469	2.133
14	0.064	0.011	0.614	0.935	0.574	0.401	0.577	1.513	2.261
15	0.069	0.012	0.575	0.925	0.532	0.437	0.555	1.558	2.397
16	0.074	0.013	0.535	0.914	0.489	0.471	0.534	1.605	2.540
17	0.080	0.014	0.496	0.902	0.447	0.503	0.513	1.653	2.693
18	0.086	0.015	0.456	0.890	0.406	0.534	0.494	1.702	2.854
19	0.094	0.017	0.417	0.877	0.366	0.563	0.475	1.754	3.026
20	0.102	0.018	0.378	0.862	0.326	0.588	0.456	1.806	3.207
21	0.111	0.020	0.339	0.846	0.287	0.611	0.439	1.860	3.400
22	0.121	0.023	0.301	0.829	0.250	0.631	0.422	1.916	3.604
23	0.131	0.025	0.265	0.810	0.215	0.646	0.406	1.974	3.820
24	0.141	0.028	0.230	0.790	0.182	0.656	0.390	2.033	4.049
25	0.151	0.032	0.198	0.767	0.152	0.662	0.375	2.094	4.292
26	0.162	0.035	0.168	0.743	0.125	0.661	0.361	2.157	4.549
27	0.173	0.039	0.141	0.717	0.101	0.656	0.347	2.221	4.822
28	0.186	0.044	0.116	0.689	0.080	0.645	0.333	2.288	5.112
29	0.201	0.049	0.095	0.658	0.062	0.628	0.321	2.357	5.418
30	0.218	0.055	0.076	0.626	0.047	0.607	0.308	2.427	5.743
31	0.237	0.061	0.059	0.592	0.035	0.581	0.296	2.500	6.088
32	0.258	0.068	0.045	0.556	0.025	0.551	0.285	2.575	6.453
33	0.282	0.075	0.033	0.518	0.017	0.517	0.274	2.652	6.841
34	0.309	0.084	0.024	0.479	0.012	0.480	0.264	2.732	7.251
35	0.339	0.094	0.017	0.439	0.007	0.441	0.253	2.814	7.686
36	0.371	0.105	0.011	0.398	0.004	0.400	0.244	2.898	8.147
37	0.406	0.116	0.007	0.356	0.002	0.358	0.234	2.985	8.636
38	0.444	0.129	0.004	0.315	0.001	0.316	0.225	3.075	9.154
39	0.475	0.142	0.002	0.274	0.001	0.275	0.217	3.167	9.704
40	0.506	0.156	0.001	0.235	0.000	0.236	0.208	3.262	10.286
41	0.539	0.171	0.001	0.198	0.000	0.199	0.200	3.360	10.903
42	0.575	0.186	0.000	0.165	0.000	0.165	0.193	3.461	11.557
43	0.616	0.203	0.000	0.134	0.000	0.134	0.185	3.565	12.250
44	0.661	0.220	0.000	0.107	0.000	0.107	0.178	3.671	12.985
45	0.713	0.238	0.000	0.083	0.000	0.083	0.171	3.782	13.765
46	0.773	0.257	0.000	0.064	0.000	0.064	0.165	3.895	14.590
47	0.841	0.276	0.000	0.047	0.000	0.047	0.158	4.012	15.466
48	0.918	0.297	0.000	0.034	0.000	0.034	0.152	4.132	16.394
49	1.000	0.317	0.000	0.024	0.000	0.024	0.146	4.256	17.378
50	-	0.339	-	0.016	-	0.016	0.141	4.384	18.420
51	-	0.361	-	0.011	-	0.011	0.135	4.515	19.525
52	-	0.384	-	0.007	-	0.007	0.130	4.651	20.697
53	-	0.405	-	0.004	-	0.004	0.125	4.790	21.939
54	-	0.425	-	0.003	-	0.003	0.120	4.934	23.255
55	-	0.444	-	0.001	-	0.001	0.116	5.082	24.650
56	-	0.464	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.482	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.495	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 62

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	62.00	M		
	CLAIMANT 2 (y)	58.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			18.54	12.96
(12)	APV FOR CLAIMANT 2			45.91	24.20
(13)	APV FOR BOTH CLAIMANTS ALIVE			16.83	12.08
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			30.78	12.99
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			139,164	97,268
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			420,596	233,557
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			25.322	16.719
(23)	APV OF MEDICAL BENEFIT			151,934	100,315

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.027	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.030	0.004	0.973	0.997	0.970	0.030	0.962	1.030	1.060
2	0.033	0.004	0.945	0.993	0.938	0.062	0.925	1.061	1.124
3	0.037	0.005	0.913	0.988	0.903	0.096	0.889	1.093	1.191
4	0.041	0.006	0.880	0.983	0.865	0.133	0.855	1.126	1.262
5	0.046	0.007	0.844	0.978	0.825	0.171	0.822	1.159	1.338
6	0.050	0.008	0.805	0.971	0.782	0.212	0.790	1.194	1.419
7	0.055	0.009	0.765	0.964	0.737	0.254	0.760	1.230	1.504
8	0.059	0.010	0.723	0.955	0.691	0.297	0.731	1.267	1.594
9	0.064	0.011	0.680	0.946	0.643	0.339	0.703	1.305	1.689
10	0.069	0.012	0.637	0.936	0.596	0.381	0.676	1.344	1.791
11	0.074	0.013	0.593	0.925	0.548	0.421	0.650	1.384	1.898
12	0.080	0.014	0.549	0.913	0.501	0.459	0.625	1.426	2.012
13	0.086	0.015	0.505	0.901	0.455	0.496	0.601	1.469	2.133
14	0.094	0.017	0.462	0.887	0.410	0.530	0.577	1.513	2.261
15	0.102	0.018	0.419	0.873	0.365	0.561	0.555	1.558	2.397
16	0.111	0.020	0.376	0.857	0.322	0.589	0.534	1.605	2.540
17	0.121	0.023	0.334	0.839	0.280	0.613	0.513	1.653	2.693
18	0.131	0.025	0.294	0.820	0.241	0.632	0.494	1.702	2.854
19	0.141	0.028	0.255	0.799	0.204	0.647	0.475	1.754	3.026
20	0.151	0.032	0.219	0.777	0.170	0.655	0.456	1.806	3.207
21	0.162	0.035	0.186	0.752	0.140	0.658	0.439	1.860	3.400
22	0.173	0.039	0.156	0.725	0.113	0.655	0.422	1.916	3.604
23	0.186	0.044	0.129	0.697	0.090	0.646	0.406	1.974	3.820
24	0.201	0.049	0.105	0.666	0.070	0.631	0.390	2.033	4.049
25	0.218	0.055	0.084	0.633	0.053	0.611	0.375	2.094	4.292
26	0.237	0.061	0.066	0.599	0.039	0.586	0.361	2.157	4.549
27	0.258	0.068	0.050	0.562	0.028	0.556	0.347	2.221	4.822
28	0.282	0.075	0.037	0.524	0.019	0.522	0.333	2.288	5.112
29	0.309	0.084	0.027	0.485	0.013	0.485	0.321	2.357	5.418
30	0.339	0.094	0.018	0.444	0.008	0.446	0.308	2.427	5.743
31	0.371	0.105	0.012	0.402	0.005	0.405	0.296	2.500	6.088
32	0.406	0.116	0.008	0.360	0.003	0.362	0.285	2.575	6.453
33	0.444	0.129	0.005	0.318	0.001	0.320	0.274	2.652	6.841
34	0.475	0.142	0.003	0.277	0.001	0.278	0.264	2.732	7.251
35	0.506	0.156	0.001	0.238	0.000	0.239	0.253	2.814	7.686
36	0.539	0.171	0.001	0.201	0.000	0.201	0.244	2.898	8.147
37	0.575	0.186	0.000	0.167	0.000	0.167	0.234	2.985	8.636
38	0.616	0.203	0.000	0.136	0.000	0.136	0.225	3.075	9.154
39	0.661	0.220	0.000	0.108	0.000	0.108	0.217	3.167	9.704
40	0.713	0.238	0.000	0.084	0.000	0.084	0.208	3.262	10.286
41	0.773	0.257	0.000	0.064	0.000	0.064	0.200	3.360	10.903
42	0.841	0.276	0.000	0.048	0.000	0.048	0.193	3.461	11.557
43	0.918	0.297	0.000	0.035	0.000	0.035	0.185	3.565	12.250
44	1.000	0.317	0.000	0.024	0.000	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 67

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	67.00	M		
	CLAIMANT 2 (y)	63.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			13.84	10.36
(12)	APV FOR CLAIMANT 2			35.86	20.75
(13)	APV FOR BOTH CLAIMANTS ALIVE			12.42	9.53
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			24.87	12.06
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			103,933	77,791
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			326,510	197,793
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			17.737	12.744
(23)	APV OF MEDICAL BENEFIT			106,419	76,463

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.007	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.008	0.954	0.993	0.948	0.052	0.962	1.030	1.060
2	0.055	0.009	0.907	0.986	0.894	0.105	0.925	1.061	1.124
3	0.059	0.010	0.857	0.977	0.837	0.159	0.889	1.093	1.191
4	0.064	0.011	0.806	0.968	0.780	0.214	0.855	1.126	1.262
5	0.069	0.012	0.754	0.957	0.722	0.267	0.822	1.159	1.338
6	0.074	0.013	0.703	0.946	0.665	0.319	0.790	1.194	1.419
7	0.080	0.014	0.651	0.934	0.608	0.369	0.760	1.230	1.504
8	0.086	0.015	0.599	0.921	0.552	0.417	0.731	1.267	1.594
9	0.094	0.017	0.547	0.907	0.497	0.461	0.703	1.305	1.689
10	0.102	0.018	0.496	0.892	0.443	0.503	0.676	1.344	1.791
11	0.111	0.020	0.445	0.876	0.390	0.541	0.650	1.384	1.898
12	0.121	0.023	0.396	0.858	0.340	0.575	0.625	1.426	2.012
13	0.131	0.025	0.348	0.839	0.292	0.603	0.601	1.469	2.133
14	0.141	0.028	0.302	0.818	0.247	0.626	0.577	1.513	2.261
15	0.151	0.032	0.260	0.794	0.206	0.641	0.555	1.558	2.397
16	0.162	0.035	0.221	0.769	0.170	0.650	0.534	1.605	2.540
17	0.173	0.039	0.185	0.742	0.137	0.653	0.513	1.653	2.693
18	0.186	0.044	0.153	0.713	0.109	0.648	0.494	1.702	2.854
19	0.201	0.049	0.124	0.681	0.085	0.636	0.475	1.754	3.026
20	0.218	0.055	0.099	0.648	0.064	0.619	0.456	1.806	3.207
21	0.237	0.061	0.078	0.612	0.048	0.595	0.439	1.860	3.400
22	0.258	0.068	0.059	0.575	0.034	0.566	0.422	1.916	3.604
23	0.282	0.075	0.044	0.536	0.024	0.533	0.406	1.974	3.820
24	0.309	0.084	0.032	0.496	0.016	0.496	0.390	2.033	4.049
25	0.339	0.094	0.022	0.454	0.010	0.456	0.375	2.094	4.292
26	0.371	0.105	0.014	0.411	0.006	0.414	0.361	2.157	4.549
27	0.406	0.116	0.009	0.368	0.003	0.371	0.347	2.221	4.822
28	0.444	0.129	0.005	0.326	0.002	0.327	0.333	2.288	5.112
29	0.475	0.142	0.003	0.284	0.001	0.285	0.321	2.357	5.418
30	0.506	0.156	0.002	0.243	0.000	0.244	0.308	2.427	5.743
31	0.539	0.171	0.001	0.205	0.000	0.206	0.296	2.500	6.088
32	0.575	0.186	0.000	0.170	0.000	0.171	0.285	2.575	6.453
33	0.616	0.203	0.000	0.139	0.000	0.139	0.274	2.652	6.841
34	0.661	0.220	0.000	0.111	0.000	0.111	0.264	2.732	7.251
35	0.713	0.238	0.000	0.086	0.000	0.086	0.253	2.814	7.686
36	0.773	0.257	0.000	0.066	0.000	0.066	0.244	2.898	8.147
37	0.841	0.276	0.000	0.049	0.000	0.049	0.234	2.985	8.636
38	0.918	0.297	0.000	0.035	0.000	0.035	0.225	3.075	9.154
39	1.000	0.317	0.000	0.025	0.000	0.025	0.217	3.167	9.704
40	-	0.339	-	0.017	-	0.017	0.208	3.262	10.286
41	-	0.361	-	0.011	-	0.011	0.200	3.360	10.903
42	-	0.384	-	0.007	-	0.007	0.193	3.461	11.557
43	-	0.405	-	0.004	-	0.004	0.185	3.565	12.250
44	-	0.425	-	0.003	-	0.003	0.178	3.671	12.985
45	-	0.444	-	0.002	-	0.002	0.171	3.782	13.765
46	-	0.464	-	0.001	-	0.001	0.165	3.895	14.590
47	-	0.482	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.495	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	1.000	-	0.000	-	0.000	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 72

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	72.00	M		
	CLAIMANT 2 (y)	68.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			10.36	8.24
(12)	APV FOR CLAIMANT 2			27.60	17.45
(13)	APV FOR BOTH CLAIMANTS ALIVE			9.19	7.48
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			19.57	10.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			77,740	61,827
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			250,420	164,748
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			12.549	9.704
(23)	APV OF MEDICAL BENEFIT			75,291	58,225

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.013	0.931	0.988	0.920	0.079	0.962	1.030	1.060
2	0.080	0.014	0.863	0.976	0.842	0.155	0.925	1.061	1.124
3	0.086	0.015	0.794	0.962	0.764	0.228	0.889	1.093	1.191
4	0.094	0.017	0.726	0.948	0.688	0.298	0.855	1.126	1.262
5	0.102	0.018	0.658	0.932	0.613	0.364	0.822	1.159	1.338
6	0.111	0.020	0.590	0.915	0.540	0.425	0.790	1.194	1.419
7	0.121	0.023	0.525	0.896	0.470	0.480	0.760	1.230	1.504
8	0.131	0.025	0.461	0.876	0.404	0.529	0.731	1.267	1.594
9	0.141	0.028	0.401	0.854	0.342	0.570	0.703	1.305	1.689
10	0.151	0.032	0.344	0.830	0.286	0.603	0.676	1.344	1.791
11	0.162	0.035	0.292	0.803	0.235	0.626	0.650	1.384	1.898
12	0.173	0.039	0.245	0.775	0.190	0.640	0.625	1.426	2.012
13	0.186	0.044	0.203	0.744	0.151	0.645	0.601	1.469	2.133
14	0.201	0.049	0.165	0.712	0.117	0.642	0.577	1.513	2.261
15	0.218	0.055	0.132	0.677	0.089	0.630	0.555	1.558	2.397
16	0.237	0.061	0.103	0.640	0.066	0.611	0.534	1.605	2.540
17	0.258	0.068	0.079	0.601	0.047	0.585	0.513	1.653	2.693
18	0.282	0.075	0.058	0.560	0.033	0.553	0.494	1.702	2.854
19	0.309	0.084	0.042	0.518	0.022	0.516	0.475	1.754	3.026
20	0.339	0.094	0.029	0.474	0.014	0.476	0.456	1.806	3.207
21	0.371	0.105	0.019	0.430	0.008	0.432	0.439	1.860	3.400
22	0.406	0.116	0.012	0.385	0.005	0.388	0.422	1.916	3.604
23	0.444	0.129	0.007	0.340	0.002	0.342	0.406	1.974	3.820
24	0.475	0.142	0.004	0.296	0.001	0.298	0.390	2.033	4.049
25	0.506	0.156	0.002	0.254	0.001	0.255	0.375	2.094	4.292
26	0.539	0.171	0.001	0.215	0.000	0.215	0.361	2.157	4.549
27	0.575	0.186	0.000	0.178	0.000	0.178	0.347	2.221	4.822
28	0.616	0.203	0.000	0.145	0.000	0.145	0.333	2.288	5.112
29	0.661	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.713	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.773	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.841	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.918	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	1.000	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	-	0.339	-	0.018	-	0.018	0.253	2.814	7.686
36	-	0.361	-	0.012	-	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 80

		Age	Sex
	CLAIMANT 1 (x)	80.00	M
	CLAIMANT 2 (y)	76.00	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(11)	APV FOR CLAIMANT 1	6.31	5.44
(12)	APV FOR CLAIMANT 2	17.26	12.43
(13)	APV FOR BOTH CLAIMANTS ALIVE	5.49	4.83
(14)	APV FOR ONLY 1 CLAIMANT ALIVE	12.58	8.21
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY	47,349	40,874
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.	156,280	116,033
	MEDICAL PAYMENTS		
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT	7.108	6.053
(23)	APV OF MEDICAL BENEFIT	42,648	36,316

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.131	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.141	0.028	0.869	0.975	0.847	0.150	0.962	1.030	1.060
2	0.151	0.032	0.747	0.947	0.707	0.279	0.925	1.061	1.124
3	0.162	0.035	0.634	0.917	0.581	0.388	0.889	1.093	1.191
4	0.173	0.039	0.531	0.885	0.470	0.476	0.855	1.126	1.262
5	0.186	0.044	0.439	0.850	0.373	0.543	0.822	1.159	1.338
6	0.201	0.049	0.357	0.812	0.290	0.589	0.790	1.194	1.419
7	0.218	0.055	0.285	0.772	0.220	0.617	0.760	1.230	1.504
8	0.237	0.061	0.223	0.730	0.163	0.627	0.731	1.267	1.594
9	0.258	0.068	0.170	0.686	0.117	0.622	0.703	1.305	1.689
10	0.282	0.075	0.126	0.639	0.081	0.604	0.676	1.344	1.791
11	0.309	0.084	0.091	0.591	0.054	0.574	0.650	1.384	1.898
12	0.339	0.094	0.063	0.541	0.034	0.536	0.625	1.426	2.012
13	0.371	0.105	0.041	0.491	0.020	0.491	0.601	1.469	2.133
14	0.406	0.116	0.026	0.439	0.011	0.442	0.577	1.513	2.261
15	0.444	0.129	0.015	0.388	0.006	0.392	0.555	1.558	2.397
16	0.475	0.142	0.009	0.338	0.003	0.341	0.534	1.605	2.540
17	0.506	0.156	0.005	0.290	0.001	0.292	0.513	1.653	2.693
18	0.539	0.171	0.002	0.245	0.001	0.246	0.494	1.702	2.854
19	0.575	0.186	0.001	0.203	0.000	0.204	0.475	1.754	3.026
20	0.616	0.203	0.000	0.165	0.000	0.166	0.456	1.806	3.207
21	0.661	0.220	0.000	0.132	0.000	0.132	0.439	1.860	3.400
22	0.713	0.238	0.000	0.103	0.000	0.103	0.422	1.916	3.604
23	0.773	0.257	0.000	0.078	0.000	0.078	0.406	1.974	3.820
24	0.841	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	0.918	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	1.000	0.317	0.000	0.030	0.000	0.030	0.361	2.157	4.549
27	-	0.339	-	0.020	-	0.020	0.347	2.221	4.822
28	-	0.361	-	0.013	-	0.013	0.333	2.288	5.112
29	-	0.384	-	0.009	-	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF WEIGHTED NOMINAL BENEFITS PER CLAIM FOR TERMINATED MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 42			NOMINAL ESTIMATES AT ENTITLEMENT AGE 47			NOMINAL ESTIMATES AT ENTITLEMENT AGE 52			NOMINAL ESTIMATES AT ENTITLEMENT AGE 57			NOMINAL ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	1,044,278	2,367,735	95,887	955,132	2,232,480	134,235	846,834	2,057,250	181,523	721,457	1,833,950	247,767	582,297	1,557,872	332,419
20 - 24	883,793	1,686,768	66,597	808,347	1,590,412	99,463	716,692	1,465,580	140,213	610,583	1,306,501	197,167	492,809	1,109,824	269,819
25 - 29	792,066	1,347,696	49,026	724,450	1,270,709	78,784	642,309	1,170,970	115,837	547,212	1,043,870	167,533	441,662	886,728	233,383
30 - 34	691,767	1,019,640	29,627	632,713	961,394	55,990	560,973	885,933	89,011	477,919	789,771	134,969	385,734	670,881	193,395
35 - 39	604,389	771,721	14,168	552,794	727,637	37,533	490,116	670,524	66,970	417,552	597,744	107,841	337,011	507,761	159,698
40 - 44	529,577	585,774	-	484,369	552,312	20,825	429,449	508,961	47,239	365,867	453,717	83,811	295,296	385,415	130,110
45 - 49	529,577	585,774	-	429,521	424,276	-	380,819	390,975	24,374	324,438	348,537	57,969	261,858	296,069	100,342
50 - 54	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	291,210	271,007	31,609	235,039	230,210	71,287
55 - 59	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	216,321	183,544	38,862
60 - 64	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
65 - 69	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
70 - 74	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
75 - 79	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
80 - 84	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
85 - 89	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 67			NOMINAL ESTIMATES AT ENTITLEMENT AGE 72			NOMINAL ESTIMATES AT ENTITLEMENT AGE 80			NOMINAL ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	433,646	1,232,303	438,250	287,247	880,157	553,656	103,472	366,440	651,646	586,984	1,543,492	338,893
20 - 24	367,003	877,889	360,473	243,102	627,022	459,267	87,571	261,051	544,132	496,775	1,099,580	275,293
25 - 29	328,913	701,417	315,425	217,871	500,978	404,787	78,482	208,575	482,262	445,216	878,543	238,286
30 - 34	287,262	530,678	266,033	190,282	379,030	345,097	68,544	157,803	414,514	388,839	664,689	197,672
35 - 39	250,978	401,647	224,037	166,248	286,872	294,018	59,886	119,435	356,225	339,724	503,074	163,432
40 - 44	219,912	304,870	187,412	145,669	217,750	249,689	52,473	90,657	305,846	297,673	381,858	133,377
45 - 49	195,010	234,196	152,576	129,174	167,271	209,267	46,531	69,641	261,591	256,440	287,348	107,955
50 - 54	175,037	182,100	119,945	115,945	130,063	172,661	41,766	54,150	222,782	223,196	218,459	83,080
55 - 59	161,098	145,187	86,171	106,711	103,698	137,297	38,440	43,173	187,921	197,487	169,084	56,329
60 - 64	153,939	120,182	48,715	101,969	85,839	101,189	36,731	35,738	155,804	173,519	131,405	31,168
65 - 69	157,352	106,419	-	104,230	76,009	59,000	37,546	31,645	124,066	139,296	95,925	19,822
70 - 74	157,352	106,419	-	119,183	75,291	-	42,932	31,346	88,432	119,183	75,291	-
75 - 79	157,352	106,419	-	119,183	75,291	-	56,324	35,625	42,277	56,324	35,625	42,277
80 - 84	157,352	106,419	-	119,183	75,291	-	73,492	42,648	-	73,492	42,648	-
85 - 89	157,352	106,419	-	119,183	75,291	-	73,492	42,648	-	73,492	42,648	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8, EXHIBIT 4, SHEET 2A, COL. (16), (17), (18)
(5)-(7) SECTION 8, EXHIBIT 4, SHEET 2B, COL. (16), (17), (18)
(8)-(10) SECTION 8, EXHIBIT 4, SHEET 2C, COL. (16), (17), (18)
(11)-(13) SECTION 8, EXHIBIT 4, SHEET 2D, COL. (16), (17), (18)
(14)-(16) SECTION 8, EXHIBIT 4, SHEET 2E, COL. (16), (17), (18)
(17)-(19) SECTION 8, EXHIBIT 4, SHEET 2F, COL. (16), (17), (18)
(20) - (22) SECTION 8, EXHIBIT 4, SHEET 2G, COL. (16), (17), (18)
(23) - (25) SECTION 8, EXHIBIT 4, SHEET 2H, COL. (16), (17), (18)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25)
USING WEIGHTS FROM SECTION 8, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF WEIGHTED DISCOUNTED BENEFITS PER CLAIM FOR TERMINATED MINERS

	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 42			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 47			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 52			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 57			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 62		
CURRENT AGE GROUP OF ACTIVE MINERS	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	174,629	378,019	12,799	143,527	331,219	16,166	114,326	281,390	19,881	87,199	229,179	24,671	62,684	176,094	29,996
20 - 24	187,004	340,750	11,248	153,697	298,564	15,157	122,427	253,648	19,430	93,378	206,585	24,842	67,126	158,732	30,807
25 - 29	196,062	318,497	9,687	161,143	279,066	14,045	128,358	237,083	18,779	97,901	193,093	24,693	70,378	148,366	31,173
30 - 34	208,334	293,175	7,122	171,228	256,879	12,144	136,391	218,234	17,557	104,029	177,742	24,204	74,782	136,571	31,429
35 - 39	221,454	269,965	4,144	182,012	236,543	9,904	144,981	200,957	16,071	110,580	163,670	23,529	79,492	125,759	31,575
40 - 44	236,082	249,312	-	194,035	218,447	6,686	154,558	185,583	13,792	117,884	151,149	22,247	84,743	116,138	31,299
45 - 49	236,082	249,312	-	209,340	204,163	-	166,749	173,448	8,658	127,183	141,266	18,722	91,428	108,544	29,367
50 - 54	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	138,890	133,640	12,420	99,843	102,684	25,384
55 - 59	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	111,801	99,606	16,836
60 - 64	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
65 - 69	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
70 - 74	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
75 - 79	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
80 - 84	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
85 - 89	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-

	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 67			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 72			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 80			DISCOUNTED ESTIMATES WEIGHTED BENEFITS		
CURRENT AGE GROUP OF ACTIVE MINERS	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	41,335	124,589	35,685	24,119	78,721	40,487	7,010	26,370	39,661	67,470	181,919	29,621
20 - 24	44,264	112,306	37,140	25,828	70,960	42,495	7,506	23,770	41,904	72,251	163,984	30,364
25 - 29	46,409	104,971	38,019	27,080	66,326	43,816	7,870	22,218	43,447	75,751	153,275	30,674
30 - 34	49,313	96,626	39,013	28,775	61,053	45,448	8,362	20,451	45,435	80,492	141,089	30,846
35 - 39	52,419	88,976	39,972	30,587	56,219	47,111	8,889	18,832	47,505	85,561	129,919	30,899
40 - 44	55,881	82,169	40,682	32,607	51,918	48,675	9,476	17,392	49,623	91,213	119,980	30,505
45 - 49	60,289	76,796	40,295	35,179	48,524	49,634	10,224	16,254	51,638	93,231	107,914	29,671
50 - 54	65,839	72,651	38,541	38,417	45,904	49,824	11,165	15,377	53,505	96,561	98,142	27,309
55 - 59	73,724	70,473	33,687	43,018	44,528	48,203	12,502	14,916	54,911	101,503	90,655	21,798
60 - 64	85,710	70,975	23,170	50,012	44,845	43,223	14,535	15,022	55,390	103,458	82,321	13,979
65 - 69	106,592	76,463	-	62,197	48,313	30,662	18,076	16,184	53,662	91,800	66,977	10,024
70 - 74	106,592	76,463	-	86,528	58,225	-	25,147	19,504	46,536	86,528	58,225	-
75 - 79	106,592	76,463	-	86,528	58,225	-	40,138	26,969	27,068	40,138	26,969	27,068
80 - 84	106,592	76,463	-	86,528	58,225	-	58,912	36,316	-	58,912	36,316	-
85 - 89	106,592	76,463	-	86,528	58,225	-	58,912	36,316	-	58,912	36,316	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8, EXHIBIT 4, SHEET 2A, COL. (19), (20), (21)
(5)-(7) SECTION 8, EXHIBIT 4, SHEET 2B, COL. (19), (20), (21)
(8)-(10) SECTION 8, EXHIBIT 4, SHEET 2C, COL. (19), (20), (21)
(11)-(13) SECTION 8, EXHIBIT 4, SHEET 2D, COL. (19), (20), (21)
(14)-(16) SECTION 8, EXHIBIT 4, SHEET 2E, COL. (19), (20), (21)
(17)-(19) SECTION 8, EXHIBIT 4, SHEET 2F, COL. (19), (20), (21)
(20) - (22) SECTION 8, EXHIBIT 4, SHEET 2G, COL. (19), (20), (21)

(23) - (25) SECTION 8, EXHIBIT 4, SHEET 2H, COL. (19), (20), (21)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25)
USING WEIGHTS FROM SECTION 8, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF LIABILITY FOR ACTIVE MINERS - LOW ESTIMATE

	LOW
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	10%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	18	0.8%	22	2	-	570,797	327,526	1,458,451	1,141,595	2,916,902	4,058,497	100%	4,058,497
20 - 24	22	6.3%	171	17	3	510,691	285,175	1,163,305	9,537,276	19,776,186	29,313,462	100%	29,313,462
25 - 29	27	9.9%	267	27	5	445,216	238,286	878,543	13,212,273	23,720,673	36,932,946	100%	36,932,946
30 - 34	32	11.1%	298	30	5	388,839	197,672	664,689	12,653,520	19,940,660	32,594,180	100%	32,594,180
35 - 39	37	10.4%	280	28	5	339,724	163,432	503,074	10,329,431	14,086,070	24,415,501	100%	24,415,501
40 - 44	42	10.5%	283	28	5	297,673	133,377	381,858	9,001,724	10,692,015	19,693,739	100%	19,693,739
45 - 49	47	9.2%	249	25	5	256,440	107,955	287,348	6,950,771	7,183,688	14,134,459	100%	14,134,459
50 - 54	52	12.9%	347	35	6	223,196	83,080	218,459	8,310,326	7,646,064	15,956,390	100%	15,956,390
55 - 59	57	15.2%	408	41	7	197,487	56,329	169,084	8,491,282	6,932,458	15,423,741	100%	15,423,741
60 - 64	61	9.1%	245	25	5	174,406	39,384	135,923	4,557,069	3,398,085	7,955,154	100%	7,955,154
65 - 69	66	3.0%	82	8	1	137,597	30,510	97,515	1,131,288	780,116	1,911,404	100%	1,911,404
70 - 74	71	1.1%	29	3	1	114,904	13,655	74,703	358,368	224,108	582,476	100%	582,476
75 - 79	77	0.3%	7	1	-	56,324	42,277	35,625	56,324	35,625	91,949	100%	91,949
80 - 84	83	0.1%	4	-	-	73,492	-	42,648	-	-	-	100%	-
85 - 89	85	0.0%	1	-	-	73,492	-	42,648	-	-	-	100%	-
TOTAL			**2,693**	**270**	**48**				**85,731,247**	**117,332,651**	**203,063,898**		**203,063,898**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
68,234	29,760	178,772	136,467	357,543	494,011	100%	494,011
71,418	30,260	166,815	1,304,886	2,835,848	4,140,734	100%	4,140,734
75,751	30,674	153,275	2,198,644	4,138,415	6,337,059	100%	6,337,059
80,492	30,846	141,089	2,568,987	4,232,659	6,801,647	100%	6,801,647
85,561	30,899	129,919	2,550,204	3,637,729	6,187,933	100%	6,187,933
91,213	30,505	119,980	2,706,481	3,359,439	6,065,920	100%	6,065,920
93,231	29,671	107,914	2,479,123	2,697,841	5,176,964	100%	5,176,964
96,561	27,309	98,142	3,543,488	3,434,970	6,978,459	100%	6,978,459
101,503	21,798	90,655	4,314,224	3,716,861	8,031,085	100%	8,031,085
99,987	17,367	81,876	2,586,511	2,046,908	4,633,419	100%	4,633,419
87,193	15,411	65,469	712,954	523,749	1,236,702	100%	1,236,702
80,213	8,302	55,548	248,942	166,643	415,585	100%	415,584.91
40,138	27,068	26,969	40,138	26,969	67,107	100%	67,107
58,912	-	36,316	-	-	-	100%	-
58,912	-	36,316	-	-	-	100%	-
	TOTAL		**25,391,051**	**31,175,574**	**56,566,625**		**56,566,625**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8, EXHIBIT 5, SHEET 4, COL. (26)
(7A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (26)
(8) SECTION 8, EXHIBIT 5, SHEET 4, COL. (28)
(8A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (28)

(9) SECTION 8, EXHIBIT 5, SHEET 4, COL. (27)
(9A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) ACTIVE MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF LIABILITY FOR ACTIVE MINERS - HIGH ESTIMATE

	HIGH
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	15%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	18	0.8%	22	3	1	570,797	327,526	1,458,451	2,039,918	4,375,353	6,415,271	100%	6,415,271
20 - 24	22	6.3%	171	26	5	510,691	285,175	1,163,305	14,703,847	30,245,932	44,949,779	100%	44,949,779
25 - 29	27	9.9%	267	40	7	445,216	238,286	878,543	19,476,659	35,141,737	54,618,396	100%	54,618,396
30 - 34	32	11.1%	298	45	8	388,839	197,672	664,689	19,079,117	29,910,990	48,990,107	100%	48,990,107
35 - 39	37	10.4%	280	42	8	339,724	163,432	503,074	15,575,862	21,129,106	36,704,968	100%	36,704,968
40 - 44	42	10.5%	283	42	8	297,673	133,377	381,858	13,569,274	16,038,023	29,607,297	100%	29,607,297
45 - 49	47	9.2%	249	37	7	256,440	107,955	287,348	10,243,959	10,631,859	20,875,818	100%	20,875,818
50 - 54	52	12.9%	347	52	9	223,196	83,080	218,459	12,353,891	11,359,867	23,713,758	100%	23,713,758
55 - 59	57	15.2%	408	61	11	197,487	56,329	169,084	12,666,345	10,314,145	22,980,490	100%	22,980,490
60 - 64	61	9.1%	245	37	7	174,406	39,384	135,923	6,728,709	5,029,165	11,757,874	100%	11,757,874
65 - 69	66	3.0%	82	12	2	137,597	30,510	97,515	1,712,186	1,170,174	2,882,361	100%	2,882,361
70 - 74	71	1.1%	29	4	1	114,904	13,655	74,703	473,273	298,810	772,083	100%	772,083
75 - 79	77	0.3%	7	1	-	56,324	42,277	35,625	56,324	35,625	91,949	100%	91,949
80 - 84	83	0.1%	4	1	-	73,492	-	42,648	73,492	42,648	116,140	100%	116,140
85 - 89	85	0.0%	1	-	-	73,492	-	42,648	-	-	-	100%	-
TOTAL			**2,693**	**403**	**74**				**128,752,855**	**175,723,434**	**304,476,289**		**304,476,289**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
68,234	29,760	178,772	234,461	536,315	770,776	100%	770,776
71,418	30,260	166,815	2,008,169	4,337,179	6,345,348	100%	6,345,348
75,751	30,674	153,275	3,244,753	6,130,986	9,375,739	100%	9,375,739
80,492	30,846	141,089	3,868,904	6,348,989	10,217,893	100%	10,217,893
85,561	30,899	129,919	3,840,756	5,456,593	9,297,350	100%	9,297,350
91,213	30,505	119,980	4,074,974	5,039,158	9,114,132	100%	9,114,132
93,231	29,671	107,914	3,657,234	3,992,804	7,650,038	100%	7,650,038
96,561	27,309	98,142	5,266,952	5,103,385	10,370,337	100%	10,370,337
101,503	21,798	90,655	6,431,484	5,529,963	11,961,447	100%	11,961,447
99,987	17,367	81,876	3,821,089	3,029,424	6,850,513	100%	6,850,513
87,193	15,411	65,469	1,077,136	785,623	1,862,759	100%	1,862,759
80,213	8,302	55,548	329,155	222,191	551,346	100%	551,346
40,138	27,068	26,969	40,138	26,969	67,107	100%	67,107
58,912	-	36,316	58,912	36,316	95,229	100%	95,229
58,912	-	36,316	-	-	-	100%	-
	TOTAL		**37,954,118**	**46,575,896**	**84,530,013**		**84,530,013**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8, EXHIBIT 5, SHEET 4, COL. (26)
(7A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (26)
(8) SECTION 8, EXHIBIT 5, SHEET 4, COL. (28)
(8A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (28)

(9) SECTION 8, EXHIBIT 5, SHEET 4, COL. (27)
(9A) SECTION 8, EXHIBIT 5, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) ACTIVE MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 42

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	383,803	991,197	786,810	585,774
DISCOUNTED	190,974	378,924	279,974	249,312

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.033	4.049	0.390	24.0%	0.943	0.057	499,550	222,696	44,613	15,875	1,015,482	2,237,281	90,688	176,606	371,479	12,589
22	1.806	3.207	0.456	24.0%	0.950	0.050	503,042	224,253	39,425	14,029	908,550	1,784,523	71,205	184,848	346,632	11,564
27	1.558	2.397	0.555	24.0%	0.960	0.040	508,397	226,640	31,468	11,197	792,066	1,347,696	49,026	196,062	318,497	9,687
32	1.344	1.791	0.676	24.0%	0.972	0.028	514,739	229,467	22,045	7,844	691,767	1,019,640	29,627	208,334	293,175	7,122
37	1.159	1.338	0.822	24.0%	0.984	0.016	521,351	232,415	12,222	4,349	604,389	771,721	14,168	221,454	269,965	4,144
42	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
47	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
52	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
57	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
61	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
66	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
71	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
77	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
83	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-
85	1.000	1.000	1.000	24.0%	1.000	-	529,577	236,082	-	-	529,577	585,774	-	236,082	249,312	-

(1) SECTION 8, EXHIBIT 5, SHEET 3A, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3A, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3A, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3A, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 47

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	305,355	822,711	659,482	424,276
DISCOUNTED	166,695	344,383	257,601	204,163

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.357	5.418	0.321	24.0%	0.918	0.082	394,130	192,092	54,338	21,225	928,794	2,109,477	128,051	145,152	325,489	16,038
22	2.094	4.292	0.375	24.0%	0.924	0.076	396,886	193,435	50,108	19,573	830,990	1,682,583	104,915	151,926	303,718	15,373
27	1.806	3.207	0.456	24.0%	0.934	0.066	401,111	195,494	43,621	17,039	724,450	1,270,709	78,784	161,143	279,066	14,045
32	1.558	2.397	0.555	24.0%	0.946	0.054	406,115	197,933	35,938	14,038	632,713	961,394	55,990	171,228	256,879	12,144
37	1.344	1.791	0.676	24.0%	0.958	0.042	411,331	200,475	27,928	10,909	552,794	727,637	37,533	182,012	236,543	9,904
42	1.159	1.338	0.822	24.0%	0.973	0.027	417,821	203,638	17,963	7,017	484,369	552,312	20,825	194,035	218,447	6,686
47	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
52	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
57	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
61	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
66	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
71	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
77	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
83	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-
85	1.000	1.000	1.000	24.0%	1.000	-	429,521	209,340	-	-	429,521	424,276	-	209,340	204,163	-

(1) SECTION 8, EXHIBIT 5, SHEET 3B, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3B, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3B, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3B, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 52

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	238,843	667,903	539,582	304,005
DISCOUNTED	142,407	307,787	233,195	164,085

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.732	7.251	0.264	24.0%	0.882	0.118	301,432	160,584	63,751	27,552	823,483	1,943,903	174,163	115,620	276,522	19,837
22	2.427	5.743	0.308	24.0%	0.888	0.112	303,539	161,706	60,425	26,114	736,768	1,550,516	146,668	121,016	258,027	19,543
27	2.094	4.292	0.375	24.0%	0.897	0.103	306,770	163,427	55,324	23,910	642,309	1,170,970	115,837	128,358	237,083	18,779
32	1.806	3.207	0.456	24.0%	0.909	0.091	310,597	165,466	49,283	21,299	560,973	885,933	89,011	136,391	218,234	17,557
37	1.558	2.397	0.555	24.0%	0.920	0.080	314,587	167,592	42,985	18,577	490,116	670,524	66,970	144,981	200,957	16,071
42	1.344	1.791	0.676	24.0%	0.935	0.065	319,550	170,236	35,150	15,191	429,449	508,961	47,239	154,558	185,583	13,792
47	1.159	1.338	0.822	24.0%	0.961	0.039	328,498	175,003	21,025	9,087	380,819	390,975	24,374	166,749	173,448	8,658
52	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
57	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
61	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
66	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
71	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
77	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
83	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-
85	1.000	1.000	1.000	24.0%	1.000	-	341,817	182,098	-	-	341,817	304,005	-	182,098	164,085	-

(1) SECTION 8, EXHIBIT 5, SHEET 3C, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3C, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3C, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3C, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 57

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	184,009	534,051	434,507	216,071
DISCOUNTED	119,170	270,646	207,719	129,634

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	3.167	9.704	0.217	24.0%	0.827	0.173	221,521	128,543	75,382	36,037	701,563	1,732,906	238,736	88,186	225,214	24,723
22	2.814	7.686	0.253	24.0%	0.832	0.168	223,069	129,441	72,871	34,837	627,687	1,382,218	205,050	92,301	210,151	24,841
27	2.427	5.743	0.308	24.0%	0.841	0.159	225,444	130,819	69,022	32,996	547,212	1,043,870	167,533	97,901	193,093	24,693
32	2.094	4.292	0.375	24.0%	0.852	0.148	228,257	132,451	64,462	30,817	477,919	789,771	134,969	104,029	177,742	24,204
37	1.806	3.207	0.456	24.0%	0.863	0.137	231,188	134,152	59,709	28,544	417,552	597,744	107,841	110,580	163,670	23,529
42	1.558	2.397	0.555	24.0%	0.876	0.124	234,836	136,269	53,795	25,717	365,867	453,717	83,811	117,884	151,149	22,247
47	1.344	1.791	0.676	24.0%	0.901	0.099	241,412	140,085	43,135	20,621	324,438	348,537	57,969	127,183	141,266	18,722
52	1.159	1.338	0.822	24.0%	0.937	0.063	251,200	145,765	27,266	13,035	291,210	271,007	31,609	138,890	133,640	12,420
57	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
61	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
66	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
71	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
77	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
83	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-
85	1.000	1.000	1.000	24.0%	1.000	-	268,019	155,524	-	-	268,019	216,071	-	155,524	129,634	-

(1) SECTION 8, EXHIBIT 5, SHEET 3D, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3D, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3D, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3D, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 62

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	139,164	420,596	344,622	151,934
DISCOUNTED	97,268	233,557	181,646	100,315

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	3.671	12.985	0.178	24.0%	0.746	0.254	154,228	96,978	87,494	46,117	566,240	1,472,039	321,231	63,394	173,047	30,146
22	3.262	10.286	0.208	24.0%	0.751	0.249	155,306	97,656	85,697	45,170	506,614	1,174,143	279,547	66,352	161,473	30,690
27	2.814	7.686	0.253	24.0%	0.759	0.241	156,959	98,696	82,941	43,717	441,662	886,728	233,383	70,378	148,366	31,173
32	2.427	5.743	0.308	24.0%	0.769	0.231	158,917	99,927	79,676	41,996	385,734	670,881	193,395	74,782	136,571	31,429
37	2.094	4.292	0.375	24.0%	0.779	0.221	160,959	101,211	76,273	40,202	337,011	507,761	159,698	79,492	125,759	31,575
42	1.806	3.207	0.456	24.0%	0.791	0.209	163,498	102,808	72,039	37,971	295,296	385,415	130,110	84,743	116,138	31,299
47	1.558	2.397	0.555	24.0%	0.813	0.187	168,076	105,686	64,406	33,948	261,858	296,069	100,342	91,428	108,544	29,367
52	1.344	1.791	0.676	24.0%	0.846	0.154	174,891	109,971	53,045	27,959	235,039	230,210	71,287	99,843	102,684	25,384
57	1.159	1.338	0.822	24.0%	0.903	0.097	186,601	117,334	33,522	17,669	216,321	183,544	38,862	111,801	99,606	16,836
61	1.030	1.060	0.962	24.0%	0.976	0.024	201,713	126,837	8,327	4,389	207,764	157,159	8,577	125,617	99,774	4,347
66	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
71	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
77	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
83	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-
85	1.000	1.000	1.000	24.0%	1.000	-	206,708	129,978	-	-	206,708	151,934	-	129,978	100,315	-

(1) SECTION 8, EXHIBIT 5, SHEET 3E, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3E, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3E, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3E, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 67

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	103,933	326,510	269,195	106,419
DISCOUNTED	77,791	197,793	155,777	76,463

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	4.256	17.378	0.146	24.0%	0.630	0.370	99,076	67,115	99,698	57,693	421,688	1,164,407	424,335	41,803	122,433	35,934
22	3.782	13.765	0.171	24.0%	0.634	0.366	99,768	67,584	98,513	57,007	377,283	928,767	372,535	43,754	114,244	36,906
27	3.262	10.286	0.208	24.0%	0.641	0.359	100,830	68,304	96,696	55,955	328,913	701,417	315,425	46,409	104,971	38,019
32	2.814	7.686	0.253	24.0%	0.649	0.351	102,088	69,156	94,544	54,710	287,262	530,678	266,033	49,313	96,626	39,013
37	2.427	5.743	0.308	24.0%	0.657	0.343	103,400	70,044	92,300	53,412	250,978	401,647	224,037	52,419	88,976	39,972
42	2.094	4.292	0.375	24.0%	0.667	0.333	105,031	71,149	89,509	51,797	219,912	304,870	187,412	55,881	82,169	40,682
47	1.806	3.207	0.456	24.0%	0.686	0.314	107,972	73,141	84,478	48,885	195,010	234,196	152,576	60,289	76,796	40,295
52	1.558	2.397	0.555	24.0%	0.714	0.286	112,350	76,107	76,988	44,551	175,037	182,100	119,945	65,839	72,651	38,541
57	1.344	1.791	0.676	24.0%	0.762	0.238	119,872	81,203	64,119	37,104	161,098	145,187	86,171	73,724	70,473	33,687
61	1.194	1.419	0.790	24.0%	0.824	0.176	129,580	87,779	47,511	27,493	154,726	124,315	56,730	82,835	70,591	25,945
66	1.030	1.060	0.962	24.0%	0.959	0.041	150,905	102,225	11,029	6,382	155,432	108,183	11,360	101,242	74,740	6,321
71	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
77	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
83	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-
85	1.000	1.000	1.000	24.0%	1.000	-	157,352	106,592	-	-	157,352	106,419	-	106,592	76,463	-

(1) SECTION 8, EXHIBIT 5, SHEET 3F, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3F, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3F, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3F, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 72

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	77,740	250,420	207,205	75,291
DISCOUNTED	61,827	164,748	131,012	58,225

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	4.934	23.255	0.120	24.0%	0.475	0.525	56,611	41,100	108,784	68,782	279,326	831,664	536,756	24,392	77,359	40,821
22	4.384	18.420	0.141	24.0%	0.478	0.522	57,007	41,388	108,096	68,347	249,912	663,360	473,885	25,531	72,185	42,162
27	3.782	13.765	0.171	24.0%	0.483	0.517	57,614	41,828	107,041	67,680	217,871	500,978	404,787	27,080	66,326	43,816
32	3.262	10.286	0.208	24.0%	0.489	0.511	58,332	42,350	105,792	66,890	190,282	379,030	345,097	28,775	61,053	45,448
37	2.814	7.686	0.253	24.0%	0.496	0.504	59,082	42,894	104,489	66,067	166,248	286,872	294,018	30,587	56,219	47,111
42	2.427	5.743	0.308	24.0%	0.504	0.496	60,014	43,571	102,868	65,042	145,669	217,750	249,689	32,607	51,918	48,675
47	2.094	4.292	0.375	24.0%	0.518	0.482	61,694	44,791	99,947	63,195	129,174	167,271	209,267	35,179	48,524	49,634
52	1.806	3.207	0.456	24.0%	0.539	0.461	64,196	46,607	95,598	60,445	115,945	130,063	172,661	38,417	45,904	49,824
57	1.558	2.397	0.555	24.0%	0.575	0.425	68,494	49,727	88,126	55,720	106,711	103,698	137,297	43,018	44,528	48,203
61	1.384	1.898	0.650	24.0%	0.621	0.379	74,041	53,755	78,482	49,623	102,490	88,791	108,637	48,335	44,603	44,619
66	1.194	1.419	0.790	24.0%	0.723	0.277	86,226	62,601	57,298	36,228	102,958	77,268	68,417	59,075	47,224	34,188
71	1.030	1.060	0.962	24.0%	0.936	0.064	111,558	80,992	13,257	8,382	114,904	74,703	13,655	80,213	55,548	8,302
77	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-
83	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-
85	1.000	1.000	1.000	24.0%	1.000	-	119,183	86,528	-	-	119,183	75,291	-	86,528	58,225	-

(1) SECTION 8, EXHIBIT 5, SHEET 3G, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3G, ROW 18
(3) SECTION 8, EXHIBIT 5, SHEET 3G, ROW 12 * ROW 16
(4) SECTION 8, EXHIBIT 5, SHEET 3G, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 80

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	47,349	156,280	129,553	42,648
DISCOUNTED	40,874	116,033	93,303	36,316

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	6.250	37.065	0.088	24.0%	0.219	0.781	16,098	12,904	101,175	72,865	100,619	346,250	632,383	7,089	25,914	40,028
22	5.553	29.359	0.103	24.0%	0.221	0.779	16,211	12,995	100,976	72,723	90,024	276,180	560,763	7,420	24,181	41,524
27	4.790	21.939	0.125	24.0%	0.223	0.777	16,383	13,133	100,672	72,503	78,482	208,575	482,262	7,870	22,218	43,447
32	4.132	16.394	0.152	24.0%	0.226	0.774	16,587	13,297	100,312	72,244	68,544	157,803	414,514	8,362	20,451	45,435
37	3.565	12.250	0.185	24.0%	0.229	0.771	16,801	13,468	99,936	71,973	59,886	119,435	356,225	8,889	18,832	47,505
42	3.075	9.154	0.225	24.0%	0.232	0.768	17,066	13,680	99,469	71,637	52,473	90,657	305,846	9,476	17,392	49,623
47	2.652	6.841	0.274	24.0%	0.239	0.761	17,544	14,063	98,627	71,030	46,531	69,641	261,591	10,224	16,254	51,638
52	2.288	5.112	0.333	24.0%	0.248	0.752	18,255	14,633	97,373	70,127	41,766	54,150	222,782	11,165	15,377	53,505
57	1.974	3.820	0.406	24.0%	0.265	0.735	19,477	15,613	95,218	68,576	38,440	43,173	187,921	12,502	14,916	54,911
61	1.754	3.026	0.475	24.0%	0.286	0.714	21,054	16,878	92,438	66,573	36,919	36,967	162,090	14,047	14,941	55,408
66	1.513	2.261	0.577	24.0%	0.334	0.666	24,519	19,655	86,330	62,174	37,088	32,170	130,581	17,168	15,819	54,308
71	1.305	1.689	0.703	24.0%	0.432	0.568	31,723	25,429	73,631	53,029	41,391	31,101	96,072	23,312	18,607	48,612
77	1.093	1.191	0.889	24.0%	0.701	0.299	51,544	41,319	38,690	27,864	56,324	35,625	42,277	40,138	26,969	27,068
83	1.000	1.000	1.000	24.0%	1.000	-	73,492	58,912	-	-	73,492	42,648	-	58,912	36,316	-
85	1.000	1.000	1.000	24.0%	1.000	-	73,492	58,912	-	-	73,492	42,648	-	58,912	36,316	-

(1) SECTION 8, EXHIBIT 5, SHEET 3H, ROW 17
(2) SECTION 8, EXHIBIT 5, SHEET 3H, ROW 18
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(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 42

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	42.00	M		
	CLAIMANT 2 (y)	38.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			51.12	25.44
(12)	APV FOR CLAIMANT 2			104.81	37.29
(13)	APV FOR BOTH CLAIMANTS ALIVE			47.78	24.51
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			60.37	13.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			383,803	190,974
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			991,197	378,924
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			97.629	41.552
(23)	APV OF MEDICAL BENEFIT			585,774	249,312

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.004	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.005	0.001	0.996	0.999	0.995	0.005	0.962	1.030	1.060
2	0.006	0.001	0.991	0.999	0.990	0.010	0.925	1.061	1.124
3	0.006	0.001	0.985	0.998	0.984	0.016	0.889	1.093	1.191
4	0.007	0.001	0.979	0.997	0.977	0.023	0.855	1.126	1.262
5	0.007	0.001	0.973	0.996	0.969	0.031	0.822	1.159	1.338
6	0.007	0.001	0.966	0.996	0.962	0.038	0.790	1.194	1.419
7	0.008	0.001	0.959	0.995	0.954	0.046	0.760	1.230	1.504
8	0.008	0.001	0.952	0.994	0.946	0.054	0.731	1.267	1.594
9	0.009	0.001	0.944	0.993	0.937	0.063	0.703	1.305	1.689
10	0.010	0.001	0.935	0.992	0.927	0.072	0.676	1.344	1.791
11	0.012	0.001	0.925	0.990	0.916	0.083	0.650	1.384	1.898
12	0.013	0.001	0.914	0.989	0.904	0.095	0.625	1.426	2.012
13	0.014	0.002	0.903	0.988	0.891	0.107	0.601	1.469	2.133
14	0.015	0.002	0.890	0.986	0.878	0.121	0.577	1.513	2.261
15	0.017	0.002	0.876	0.984	0.863	0.136	0.555	1.558	2.397
16	0.018	0.002	0.861	0.983	0.846	0.151	0.534	1.605	2.540
17	0.020	0.002	0.846	0.980	0.829	0.168	0.513	1.653	2.693
18	0.022	0.003	0.829	0.978	0.811	0.186	0.494	1.702	2.854
19	0.024	0.003	0.811	0.976	0.791	0.205	0.475	1.754	3.026
20	0.027	0.003	0.791	0.973	0.770	0.225	0.456	1.806	3.207
21	0.030	0.004	0.770	0.970	0.746	0.247	0.439	1.860	3.400
22	0.033	0.004	0.747	0.966	0.722	0.270	0.422	1.916	3.604
23	0.037	0.005	0.723	0.962	0.695	0.295	0.406	1.974	3.820
24	0.041	0.006	0.696	0.957	0.666	0.321	0.390	2.033	4.049
25	0.046	0.007	0.667	0.951	0.635	0.349	0.375	2.094	4.292
26	0.050	0.008	0.637	0.945	0.602	0.378	0.361	2.157	4.549
27	0.055	0.009	0.605	0.938	0.567	0.408	0.347	2.221	4.822
28	0.059	0.010	0.572	0.929	0.532	0.438	0.333	2.288	5.112
29	0.064	0.011	0.538	0.920	0.495	0.468	0.321	2.357	5.418
30	0.069	0.012	0.504	0.911	0.458	0.497	0.308	2.427	5.743
31	0.074	0.013	0.469	0.900	0.422	0.525	0.296	2.500	6.088
32	0.080	0.014	0.434	0.888	0.386	0.551	0.285	2.575	6.453
33	0.086	0.015	0.400	0.876	0.350	0.575	0.274	2.652	6.841
34	0.094	0.017	0.365	0.863	0.315	0.598	0.264	2.732	7.251
35	0.102	0.018	0.331	0.849	0.281	0.618	0.253	2.814	7.686
36	0.111	0.020	0.297	0.833	0.248	0.635	0.244	2.898	8.147
37	0.121	0.023	0.264	0.816	0.216	0.649	0.234	2.985	8.636
38	0.131	0.025	0.232	0.798	0.185	0.659	0.225	3.075	9.154
39	0.141	0.028	0.202	0.778	0.157	0.666	0.217	3.167	9.704
40	0.151	0.032	0.173	0.756	0.131	0.667	0.208	3.262	10.286
41	0.162	0.035	0.147	0.732	0.108	0.663	0.200	3.360	10.903
42	0.173	0.039	0.123	0.706	0.087	0.655	0.193	3.461	11.557
43	0.186	0.044	0.102	0.678	0.069	0.642	0.185	3.565	12.250
44	0.201	0.049	0.083	0.648	0.054	0.624	0.178	3.671	12.985
45	0.218	0.055	0.066	0.616	0.041	0.601	0.171	3.782	13.765
46	0.237	0.061	0.052	0.582	0.030	0.574	0.165	3.895	14.590
47	0.258	0.068	0.040	0.547	0.022	0.543	0.158	4.012	15.466
48	0.282	0.075	0.029	0.510	0.015	0.509	0.152	4.132	16.394
49	0.309	0.084	0.021	0.471	0.010	0.473	0.146	4.256	17.378
50	0.339	0.094	0.015	0.432	0.006	0.434	0.141	4.384	18.420
51	0.371	0.105	0.010	0.391	0.004	0.393	0.135	4.515	19.525
52	0.406	0.116	0.006	0.350	0.002	0.352	0.130	4.651	20.697
53	0.444	0.129	0.004	0.310	0.001	0.311	0.125	4.790	21.939
54	0.475	0.142	0.002	0.270	0.001	0.271	0.120	4.934	23.255
55	0.506	0.156	0.001	0.231	0.000	0.232	0.116	5.082	24.650
56	0.539	0.171	0.001	0.195	0.000	0.196	0.111	5.235	26.129
57	0.575	0.186	0.000	0.162	0.000	0.162	0.107	5.392	27.697
58	0.616	0.203	0.000	0.132	0.000	0.132	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 47

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	47.00	M		
	CLAIMANT 2 (y)	43.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			40.68	22.20
(12)	APV FOR CLAIMANT 2			87.85	34.31
(13)	APV FOR BOTH CLAIMANTS ALIVE			37.85	21.28
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			52.82	13.95
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			305,355	166,695
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			822,711	344,383
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			70.713	34.027
(23)	APV OF MEDICAL BENEFIT			424,276	204,163

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.007	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.007	0.001	0.993	0.999	0.992	0.008	0.962	1.030	1.060
2	0.008	0.001	0.986	0.998	0.984	0.016	0.925	1.061	1.124
3	0.008	0.001	0.978	0.997	0.976	0.024	0.889	1.093	1.191
4	0.009	0.001	0.970	0.996	0.966	0.033	0.855	1.126	1.262
5	0.010	0.001	0.961	0.995	0.956	0.043	0.822	1.159	1.338
6	0.012	0.001	0.951	0.994	0.945	0.054	0.790	1.194	1.419
7	0.013	0.001	0.940	0.993	0.933	0.067	0.760	1.230	1.504
8	0.014	0.002	0.928	0.991	0.920	0.080	0.731	1.267	1.594
9	0.015	0.002	0.915	0.990	0.905	0.094	0.703	1.305	1.689
10	0.017	0.002	0.901	0.988	0.890	0.109	0.676	1.344	1.791
11	0.018	0.002	0.886	0.986	0.873	0.125	0.650	1.384	1.898
12	0.020	0.002	0.869	0.984	0.855	0.142	0.625	1.426	2.012
13	0.022	0.003	0.852	0.982	0.836	0.161	0.601	1.469	2.133
14	0.024	0.003	0.833	0.979	0.816	0.181	0.577	1.513	2.261
15	0.027	0.003	0.813	0.976	0.794	0.202	0.555	1.558	2.397
16	0.030	0.004	0.791	0.973	0.770	0.224	0.534	1.605	2.540
17	0.033	0.004	0.768	0.969	0.744	0.248	0.513	1.653	2.693
18	0.037	0.005	0.743	0.965	0.717	0.274	0.494	1.702	2.854
19	0.041	0.006	0.715	0.960	0.687	0.302	0.475	1.754	3.026
20	0.046	0.007	0.686	0.954	0.655	0.331	0.456	1.806	3.207
21	0.050	0.008	0.655	0.948	0.621	0.361	0.439	1.860	3.400
22	0.055	0.009	0.622	0.941	0.585	0.392	0.422	1.916	3.604
23	0.059	0.010	0.588	0.933	0.548	0.424	0.406	1.974	3.820
24	0.064	0.011	0.553	0.924	0.511	0.455	0.390	2.033	4.049
25	0.069	0.012	0.518	0.914	0.473	0.485	0.375	2.094	4.292
26	0.074	0.013	0.482	0.903	0.435	0.514	0.361	2.157	4.549
27	0.080	0.014	0.447	0.892	0.398	0.542	0.347	2.221	4.822
28	0.086	0.015	0.411	0.879	0.361	0.568	0.333	2.288	5.112
29	0.094	0.017	0.376	0.866	0.325	0.591	0.321	2.357	5.418
30	0.102	0.018	0.340	0.852	0.290	0.612	0.308	2.427	5.743
31	0.111	0.020	0.306	0.836	0.256	0.631	0.296	2.500	6.088
32	0.121	0.023	0.272	0.819	0.222	0.646	0.285	2.575	6.453
33	0.131	0.025	0.239	0.801	0.191	0.657	0.274	2.652	6.841
34	0.141	0.028	0.207	0.780	0.162	0.664	0.264	2.732	7.251
35	0.151	0.032	0.178	0.758	0.135	0.666	0.253	2.814	7.686
36	0.162	0.035	0.151	0.734	0.111	0.663	0.244	2.898	8.147
37	0.173	0.039	0.127	0.708	0.090	0.655	0.234	2.985	8.636
38	0.186	0.044	0.105	0.680	0.071	0.642	0.225	3.075	9.154
39	0.201	0.049	0.085	0.650	0.055	0.625	0.217	3.167	9.704
40	0.218	0.055	0.068	0.618	0.042	0.602	0.208	3.262	10.286
41	0.237	0.061	0.053	0.584	0.031	0.575	0.200	3.360	10.903
42	0.258	0.068	0.041	0.549	0.022	0.545	0.193	3.461	11.557
43	0.282	0.075	0.030	0.512	0.015	0.511	0.185	3.565	12.250
44	0.309	0.084	0.022	0.473	0.010	0.474	0.178	3.671	12.985
45	0.339	0.094	0.015	0.433	0.006	0.435	0.171	3.782	13.765
46	0.371	0.105	0.010	0.393	0.004	0.395	0.165	3.895	14.590
47	0.406	0.116	0.006	0.352	0.002	0.353	0.158	4.012	15.466
48	0.444	0.129	0.004	0.311	0.001	0.312	0.152	4.132	16.394
49	0.475	0.142	0.002	0.271	0.001	0.272	0.146	4.256	17.378
50	0.506	0.156	0.001	0.232	0.000	0.233	0.141	4.384	18.420
51	0.539	0.171	0.001	0.196	0.000	0.196	0.135	4.515	19.525
52	0.575	0.186	0.000	0.163	0.000	0.163	0.130	4.651	20.697
53	0.616	0.203	0.000	0.132	0.000	0.132	0.125	4.790	21.939
54	0.661	0.220	0.000	0.106	0.000	0.106	0.120	4.934	23.255
55	0.713	0.238	0.000	0.082	0.000	0.082	0.116	5.082	24.650
56	0.773	0.257	0.000	0.063	0.000	0.063	0.111	5.235	26.129
57	0.841	0.276	0.000	0.047	0.000	0.047	0.107	5.392	27.697
58	0.918	0.297	0.000	0.034	0.000	0.034	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 52

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	52.00	M		
	CLAIMANT 2 (y)	48.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			31.82	18.97
(12)	APV FOR CLAIMANT 2			71.88	31.06
(13)	APV FOR BOTH CLAIMANTS ALIVE			29.43	18.06
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			44.82	13.91
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			238,843	142,407
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			667,903	307,787
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			50.667	27.347
(23)	APV OF MEDICAL BENEFIT			304,005	164,085

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.010	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.012	0.001	0.990	0.999	0.988	0.012	0.962	1.030	1.060
2	0.013	0.001	0.978	0.997	0.976	0.024	0.925	1.061	1.124
3	0.014	0.002	0.966	0.996	0.962	0.038	0.889	1.093	1.191
4	0.015	0.002	0.952	0.994	0.947	0.053	0.855	1.126	1.262
5	0.017	0.002	0.937	0.993	0.930	0.069	0.822	1.159	1.338
6	0.018	0.002	0.922	0.991	0.913	0.086	0.790	1.194	1.419
7	0.020	0.002	0.905	0.989	0.895	0.104	0.760	1.230	1.504
8	0.022	0.003	0.887	0.987	0.875	0.124	0.731	1.267	1.594
9	0.024	0.003	0.867	0.984	0.853	0.145	0.703	1.305	1.689
10	0.027	0.003	0.846	0.981	0.830	0.167	0.676	1.344	1.791
11	0.030	0.004	0.824	0.978	0.805	0.191	0.650	1.384	1.898
12	0.033	0.004	0.799	0.974	0.778	0.216	0.625	1.426	2.012
13	0.037	0.005	0.773	0.970	0.750	0.244	0.601	1.469	2.133
14	0.041	0.006	0.745	0.965	0.718	0.273	0.577	1.513	2.261
15	0.046	0.007	0.714	0.959	0.685	0.303	0.555	1.558	2.397
16	0.050	0.008	0.682	0.953	0.649	0.336	0.534	1.605	2.540
17	0.055	0.009	0.647	0.946	0.612	0.369	0.513	1.653	2.693
18	0.059	0.010	0.612	0.937	0.573	0.402	0.494	1.702	2.854
19	0.064	0.011	0.575	0.928	0.534	0.435	0.475	1.754	3.026
20	0.069	0.012	0.539	0.918	0.495	0.468	0.456	1.806	3.207
21	0.074	0.013	0.502	0.907	0.455	0.499	0.439	1.860	3.400
22	0.080	0.014	0.465	0.896	0.416	0.528	0.422	1.916	3.604
23	0.086	0.015	0.428	0.884	0.378	0.555	0.406	1.974	3.820
24	0.094	0.017	0.391	0.870	0.340	0.581	0.390	2.033	4.049
25	0.102	0.018	0.354	0.856	0.303	0.604	0.375	2.094	4.292
26	0.111	0.020	0.318	0.840	0.267	0.624	0.361	2.157	4.549
27	0.121	0.023	0.283	0.823	0.233	0.641	0.347	2.221	4.822
28	0.131	0.025	0.248	0.805	0.200	0.653	0.333	2.288	5.112
29	0.141	0.028	0.216	0.784	0.169	0.661	0.321	2.357	5.418
30	0.151	0.032	0.185	0.762	0.141	0.665	0.308	2.427	5.743
31	0.162	0.035	0.157	0.738	0.116	0.663	0.296	2.500	6.088
32	0.173	0.039	0.132	0.712	0.094	0.656	0.285	2.575	6.453
33	0.186	0.044	0.109	0.684	0.075	0.644	0.274	2.652	6.841
34	0.201	0.049	0.089	0.654	0.058	0.626	0.264	2.732	7.251
35	0.218	0.055	0.071	0.621	0.044	0.604	0.253	2.814	7.686
36	0.237	0.061	0.055	0.587	0.033	0.578	0.244	2.898	8.147
37	0.258	0.068	0.042	0.552	0.023	0.547	0.234	2.985	8.636
38	0.282	0.075	0.031	0.514	0.016	0.513	0.225	3.075	9.154
39	0.309	0.084	0.023	0.475	0.011	0.477	0.217	3.167	9.704
40	0.339	0.094	0.016	0.435	0.007	0.438	0.208	3.262	10.286
41	0.371	0.105	0.010	0.395	0.004	0.397	0.200	3.360	10.903
42	0.406	0.116	0.006	0.353	0.002	0.355	0.193	3.461	11.557
43	0.444	0.129	0.004	0.312	0.001	0.314	0.185	3.565	12.250
44	0.475	0.142	0.002	0.272	0.001	0.273	0.178	3.671	12.985
45	0.506	0.156	0.001	0.233	0.000	0.234	0.171	3.782	13.765
46	0.539	0.171	0.001	0.197	0.000	0.197	0.165	3.895	14.590
47	0.575	0.186	0.000	0.163	0.000	0.164	0.158	4.012	15.466
48	0.616	0.203	0.000	0.133	0.000	0.133	0.152	4.132	16.394
49	0.661	0.220	0.000	0.106	0.000	0.106	0.146	4.256	17.378
50	0.713	0.238	0.000	0.083	0.000	0.083	0.141	4.384	18.420
51	0.773	0.257	0.000	0.063	0.000	0.063	0.135	4.515	19.525
52	0.841	0.276	0.000	0.047	0.000	0.047	0.130	4.651	20.697
53	0.918	0.297	0.000	0.034	0.000	0.034	0.125	4.790	21.939
54	1.000	0.317	0.000	0.024	0.000	0.024	0.120	4.934	23.255
55	-	0.339	-	0.016	-	0.016	0.116	5.082	24.650
56	-	0.361	-	0.011	-	0.011	0.111	5.235	26.129
57	-	0.384	-	0.007	-	0.007	0.107	5.392	27.697
58	-	0.405	-	0.004	-	0.004	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 57

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	57.00	M		
	CLAIMANT 2 (y)	53.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			24.51	15.87
(12)	APV FOR CLAIMANT 2			57.88	27.67
(13)	APV FOR BOTH CLAIMANTS ALIVE			22.50	14.98
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			37.40	13.59
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			184,009	119,170
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			534,051	270,646
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			36.012	21.606
(23)	APV OF MEDICAL BENEFIT			216,071	129,634

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	0.002	0.983	0.998	0.981	0.019	0.962	1.030	1.060
2	0.020	0.002	0.965	0.996	0.961	0.039	0.925	1.061	1.124
3	0.022	0.003	0.946	0.994	0.940	0.060	0.889	1.093	1.191
4	0.024	0.003	0.925	0.991	0.917	0.082	0.855	1.126	1.262
5	0.027	0.003	0.903	0.988	0.892	0.107	0.822	1.159	1.338
6	0.030	0.004	0.879	0.985	0.865	0.133	0.790	1.194	1.419
7	0.033	0.004	0.853	0.981	0.837	0.161	0.760	1.230	1.504
8	0.037	0.005	0.825	0.977	0.806	0.190	0.731	1.267	1.594
9	0.041	0.006	0.794	0.972	0.772	0.222	0.703	1.305	1.689
10	0.046	0.007	0.762	0.966	0.736	0.256	0.676	1.344	1.791
11	0.050	0.008	0.727	0.960	0.698	0.291	0.650	1.384	1.898
12	0.055	0.009	0.691	0.952	0.658	0.327	0.625	1.426	2.012
13	0.059	0.010	0.653	0.944	0.616	0.364	0.601	1.469	2.133
14	0.064	0.011	0.614	0.935	0.574	0.401	0.577	1.513	2.261
15	0.069	0.012	0.575	0.925	0.532	0.437	0.555	1.558	2.397
16	0.074	0.013	0.535	0.914	0.489	0.471	0.534	1.605	2.540
17	0.080	0.014	0.496	0.902	0.447	0.503	0.513	1.653	2.693
18	0.086	0.015	0.456	0.890	0.406	0.534	0.494	1.702	2.854
19	0.094	0.017	0.417	0.877	0.366	0.563	0.475	1.754	3.026
20	0.102	0.018	0.378	0.862	0.326	0.588	0.456	1.806	3.207
21	0.111	0.020	0.339	0.846	0.287	0.611	0.439	1.860	3.400
22	0.121	0.023	0.301	0.829	0.250	0.631	0.422	1.916	3.604
23	0.131	0.025	0.265	0.810	0.215	0.646	0.406	1.974	3.820
24	0.141	0.028	0.230	0.790	0.182	0.656	0.390	2.033	4.049
25	0.151	0.032	0.198	0.767	0.152	0.662	0.375	2.094	4.292
26	0.162	0.035	0.168	0.743	0.125	0.661	0.361	2.157	4.549
27	0.173	0.039	0.141	0.717	0.101	0.656	0.347	2.221	4.822
28	0.186	0.044	0.116	0.689	0.080	0.645	0.333	2.288	5.112
29	0.201	0.049	0.095	0.658	0.062	0.628	0.321	2.357	5.418
30	0.218	0.055	0.076	0.626	0.047	0.607	0.308	2.427	5.743
31	0.237	0.061	0.059	0.592	0.035	0.581	0.296	2.500	6.088
32	0.258	0.068	0.045	0.556	0.025	0.551	0.285	2.575	6.453
33	0.282	0.075	0.033	0.518	0.017	0.517	0.274	2.652	6.841
34	0.309	0.084	0.024	0.479	0.012	0.480	0.264	2.732	7.251
35	0.339	0.094	0.017	0.439	0.007	0.441	0.253	2.814	7.686
36	0.371	0.105	0.011	0.398	0.004	0.400	0.244	2.898	8.147
37	0.406	0.116	0.007	0.356	0.002	0.358	0.234	2.985	8.636
38	0.444	0.129	0.004	0.315	0.001	0.316	0.225	3.075	9.154
39	0.475	0.142	0.002	0.274	0.001	0.275	0.217	3.167	9.704
40	0.506	0.156	0.001	0.235	0.000	0.236	0.208	3.262	10.286
41	0.539	0.171	0.001	0.198	0.000	0.199	0.200	3.360	10.903
42	0.575	0.186	0.000	0.165	0.000	0.165	0.193	3.461	11.557
43	0.616	0.203	0.000	0.134	0.000	0.134	0.185	3.565	12.250
44	0.661	0.220	0.000	0.107	0.000	0.107	0.178	3.671	12.985
45	0.713	0.238	0.000	0.083	0.000	0.083	0.171	3.782	13.765
46	0.773	0.257	0.000	0.064	0.000	0.064	0.165	3.895	14.590
47	0.841	0.276	0.000	0.047	0.000	0.047	0.158	4.012	15.466
48	0.918	0.297	0.000	0.034	0.000	0.034	0.152	4.132	16.394
49	1.000	0.317	0.000	0.024	0.000	0.024	0.146	4.256	17.378
50	-	0.339	-	0.016	-	0.016	0.141	4.384	18.420
51	-	0.361	-	0.011	-	0.011	0.135	4.515	19.525
52	-	0.384	-	0.007	-	0.007	0.130	4.651	20.697
53	-	0.405	-	0.004	-	0.004	0.125	4.790	21.939
54	-	0.425	-	0.003	-	0.003	0.120	4.934	23.255
55	-	0.444	-	0.001	-	0.001	0.116	5.082	24.650
56	-	0.464	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.482	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.495	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 62

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	62.00	M		
	CLAIMANT 2 (y)	58.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			18.54	12.96
(12)	APV FOR CLAIMANT 2			45.91	24.20
(13)	APV FOR BOTH CLAIMANTS ALIVE			16.83	12.08
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			30.78	12.99
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			139,164	97,268
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			420,596	233,557
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			25.322	16.719
(23)	APV OF MEDICAL BENEFIT			151,934	100,315

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.027	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.030	0.004	0.973	0.997	0.970	0.030	0.962	1.030	1.060
2	0.033	0.004	0.945	0.993	0.938	0.062	0.925	1.061	1.124
3	0.037	0.005	0.913	0.988	0.903	0.096	0.889	1.093	1.191
4	0.041	0.006	0.880	0.983	0.865	0.133	0.855	1.126	1.262
5	0.046	0.007	0.844	0.978	0.825	0.171	0.822	1.159	1.338
6	0.050	0.008	0.805	0.971	0.782	0.212	0.790	1.194	1.419
7	0.055	0.009	0.765	0.964	0.737	0.254	0.760	1.230	1.504
8	0.059	0.010	0.723	0.955	0.691	0.297	0.731	1.267	1.594
9	0.064	0.011	0.680	0.946	0.643	0.339	0.703	1.305	1.689
10	0.069	0.012	0.637	0.936	0.596	0.381	0.676	1.344	1.791
11	0.074	0.013	0.593	0.925	0.548	0.421	0.650	1.384	1.898
12	0.080	0.014	0.549	0.913	0.501	0.459	0.625	1.426	2.012
13	0.086	0.015	0.505	0.901	0.455	0.496	0.601	1.469	2.133
14	0.094	0.017	0.462	0.887	0.410	0.530	0.577	1.513	2.261
15	0.102	0.018	0.419	0.873	0.365	0.561	0.555	1.558	2.397
16	0.111	0.020	0.376	0.857	0.322	0.589	0.534	1.605	2.540
17	0.121	0.023	0.334	0.839	0.280	0.613	0.513	1.653	2.693
18	0.131	0.025	0.294	0.820	0.241	0.632	0.494	1.702	2.854
19	0.141	0.028	0.255	0.799	0.204	0.647	0.475	1.754	3.026
20	0.151	0.032	0.219	0.777	0.170	0.655	0.456	1.806	3.207
21	0.162	0.035	0.186	0.752	0.140	0.658	0.439	1.860	3.400
22	0.173	0.039	0.156	0.725	0.113	0.655	0.422	1.916	3.604
23	0.186	0.044	0.129	0.697	0.090	0.646	0.406	1.974	3.820
24	0.201	0.049	0.105	0.666	0.070	0.631	0.390	2.033	4.049
25	0.218	0.055	0.084	0.633	0.053	0.611	0.375	2.094	4.292
26	0.237	0.061	0.066	0.599	0.039	0.586	0.361	2.157	4.549
27	0.258	0.068	0.050	0.562	0.028	0.556	0.347	2.221	4.822
28	0.282	0.075	0.037	0.524	0.019	0.522	0.333	2.288	5.112
29	0.309	0.084	0.027	0.485	0.013	0.485	0.321	2.357	5.418
30	0.339	0.094	0.018	0.444	0.008	0.446	0.308	2.427	5.743
31	0.371	0.105	0.012	0.402	0.005	0.405	0.296	2.500	6.088
32	0.406	0.116	0.008	0.360	0.003	0.362	0.285	2.575	6.453
33	0.444	0.129	0.005	0.318	0.001	0.320	0.274	2.652	6.841
34	0.475	0.142	0.003	0.277	0.001	0.278	0.264	2.732	7.251
35	0.506	0.156	0.001	0.238	0.000	0.239	0.253	2.814	7.686
36	0.539	0.171	0.001	0.201	0.000	0.201	0.244	2.898	8.147
37	0.575	0.186	0.000	0.167	0.000	0.167	0.234	2.985	8.636
38	0.616	0.203	0.000	0.136	0.000	0.136	0.225	3.075	9.154
39	0.661	0.220	0.000	0.108	0.000	0.108	0.217	3.167	9.704
40	0.713	0.238	0.000	0.084	0.000	0.084	0.208	3.262	10.286
41	0.773	0.257	0.000	0.064	0.000	0.064	0.200	3.360	10.903
42	0.841	0.276	0.000	0.048	0.000	0.048	0.193	3.461	11.557
43	0.918	0.297	0.000	0.035	0.000	0.035	0.185	3.565	12.250
44	1.000	0.317	0.000	0.024	0.000	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 67

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	67.00	M		
	CLAIMANT 2 (y)	63.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			13.84	10.36
(12)	APV FOR CLAIMANT 2			35.86	20.75
(13)	APV FOR BOTH CLAIMANTS ALIVE			12.42	9.53
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			24.87	12.06
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			103,933	77,791
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			326,510	197,793
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			17.737	12.744
(23)	APV OF MEDICAL BENEFIT			106,419	76,463

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.007	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.008	0.954	0.993	0.948	0.052	0.962	1.030	1.060
2	0.055	0.009	0.907	0.986	0.894	0.105	0.925	1.061	1.124
3	0.059	0.010	0.857	0.977	0.837	0.159	0.889	1.093	1.191
4	0.064	0.011	0.806	0.968	0.780	0.214	0.855	1.126	1.262
5	0.069	0.012	0.754	0.957	0.722	0.267	0.822	1.159	1.338
6	0.074	0.013	0.703	0.946	0.665	0.319	0.790	1.194	1.419
7	0.080	0.014	0.651	0.934	0.608	0.369	0.760	1.230	1.504
8	0.086	0.015	0.599	0.921	0.552	0.417	0.731	1.267	1.594
9	0.094	0.017	0.547	0.907	0.497	0.461	0.703	1.305	1.689
10	0.102	0.018	0.496	0.892	0.443	0.503	0.676	1.344	1.791
11	0.111	0.020	0.445	0.876	0.390	0.541	0.650	1.384	1.898
12	0.121	0.023	0.396	0.858	0.340	0.575	0.625	1.426	2.012
13	0.131	0.025	0.348	0.839	0.292	0.603	0.601	1.469	2.133
14	0.141	0.028	0.302	0.818	0.247	0.626	0.577	1.513	2.261
15	0.151	0.032	0.260	0.794	0.206	0.641	0.555	1.558	2.397
16	0.162	0.035	0.221	0.769	0.170	0.650	0.534	1.605	2.540
17	0.173	0.039	0.185	0.742	0.137	0.653	0.513	1.653	2.693
18	0.186	0.044	0.153	0.713	0.109	0.648	0.494	1.702	2.854
19	0.201	0.049	0.124	0.681	0.085	0.636	0.475	1.754	3.026
20	0.218	0.055	0.099	0.648	0.064	0.619	0.456	1.806	3.207
21	0.237	0.061	0.078	0.612	0.048	0.595	0.439	1.860	3.400
22	0.258	0.068	0.059	0.575	0.034	0.566	0.422	1.916	3.604
23	0.282	0.075	0.044	0.536	0.024	0.533	0.406	1.974	3.820
24	0.309	0.084	0.032	0.496	0.016	0.496	0.390	2.033	4.049
25	0.339	0.094	0.022	0.454	0.010	0.456	0.375	2.094	4.292
26	0.371	0.105	0.014	0.411	0.006	0.414	0.361	2.157	4.549
27	0.406	0.116	0.009	0.368	0.003	0.371	0.347	2.221	4.822
28	0.444	0.129	0.005	0.326	0.002	0.327	0.333	2.288	5.112
29	0.475	0.142	0.003	0.284	0.001	0.285	0.321	2.357	5.418
30	0.506	0.156	0.002	0.243	0.000	0.244	0.308	2.427	5.743
31	0.539	0.171	0.001	0.205	0.000	0.206	0.296	2.500	6.088
32	0.575	0.186	0.000	0.170	0.000	0.171	0.285	2.575	6.453
33	0.616	0.203	0.000	0.139	0.000	0.139	0.274	2.652	6.841
34	0.661	0.220	0.000	0.111	0.000	0.111	0.264	2.732	7.251
35	0.713	0.238	0.000	0.086	0.000	0.086	0.253	2.814	7.686
36	0.773	0.257	0.000	0.066	0.000	0.066	0.244	2.898	8.147
37	0.841	0.276	0.000	0.049	0.000	0.049	0.234	2.985	8.636
38	0.918	0.297	0.000	0.035	0.000	0.035	0.225	3.075	9.154
39	1.000	0.317	0.000	0.025	0.000	0.025	0.217	3.167	9.704
40	-	0.339	-	0.017	-	0.017	0.208	3.262	10.286
41	-	0.361	-	0.011	-	0.011	0.200	3.360	10.903
42	-	0.384	-	0.007	-	0.007	0.193	3.461	11.557
43	-	0.405	-	0.004	-	0.004	0.185	3.565	12.250
44	-	0.425	-	0.003	-	0.003	0.178	3.671	12.985
45	-	0.444	-	0.002	-	0.002	0.171	3.782	13.765
46	-	0.464	-	0.001	-	0.001	0.165	3.895	14.590
47	-	0.482	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.495	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	1.000	-	0.000	-	0.000	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 72

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	72.00	M		
	CLAIMANT 2 (y)	68.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			10.36	8.24
(12)	APV FOR CLAIMANT 2			27.60	17.45
(13)	APV FOR BOTH CLAIMANTS ALIVE			9.19	7.48
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			19.57	10.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			77,740	61,827
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			250,420	164,748
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			12.549	9.704
(23)	APV OF MEDICAL BENEFIT			75,291	58,225

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.013	0.931	0.988	0.920	0.079	0.962	1.030	1.060
2	0.080	0.014	0.863	0.976	0.842	0.155	0.925	1.061	1.124
3	0.086	0.015	0.794	0.962	0.764	0.228	0.889	1.093	1.191
4	0.094	0.017	0.726	0.948	0.688	0.298	0.855	1.126	1.262
5	0.102	0.018	0.658	0.932	0.613	0.364	0.822	1.159	1.338
6	0.111	0.020	0.590	0.915	0.540	0.425	0.790	1.194	1.419
7	0.121	0.023	0.525	0.896	0.470	0.480	0.760	1.230	1.504
8	0.131	0.025	0.461	0.876	0.404	0.529	0.731	1.267	1.594
9	0.141	0.028	0.401	0.854	0.342	0.570	0.703	1.305	1.689
10	0.151	0.032	0.344	0.830	0.286	0.603	0.676	1.344	1.791
11	0.162	0.035	0.292	0.803	0.235	0.626	0.650	1.384	1.898
12	0.173	0.039	0.245	0.775	0.190	0.640	0.625	1.426	2.012
13	0.186	0.044	0.203	0.744	0.151	0.645	0.601	1.469	2.133
14	0.201	0.049	0.165	0.712	0.117	0.642	0.577	1.513	2.261
15	0.218	0.055	0.132	0.677	0.089	0.630	0.555	1.558	2.397
16	0.237	0.061	0.103	0.640	0.066	0.611	0.534	1.605	2.540
17	0.258	0.068	0.079	0.601	0.047	0.585	0.513	1.653	2.693
18	0.282	0.075	0.058	0.560	0.033	0.553	0.494	1.702	2.854
19	0.309	0.084	0.042	0.518	0.022	0.516	0.475	1.754	3.026
20	0.339	0.094	0.029	0.474	0.014	0.476	0.456	1.806	3.207
21	0.371	0.105	0.019	0.430	0.008	0.432	0.439	1.860	3.400
22	0.406	0.116	0.012	0.385	0.005	0.388	0.422	1.916	3.604
23	0.444	0.129	0.007	0.340	0.002	0.342	0.406	1.974	3.820
24	0.475	0.142	0.004	0.296	0.001	0.298	0.390	2.033	4.049
25	0.506	0.156	0.002	0.254	0.001	0.255	0.375	2.094	4.292
26	0.539	0.171	0.001	0.215	0.000	0.215	0.361	2.157	4.549
27	0.575	0.186	0.000	0.178	0.000	0.178	0.347	2.221	4.822
28	0.616	0.203	0.000	0.145	0.000	0.145	0.333	2.288	5.112
29	0.661	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.713	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.773	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.841	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.918	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	1.000	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	-	0.339	-	0.018	-	0.018	0.253	2.814	7.686
36	-	0.361	-	0.012	-	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 80

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	80.00	M		
	CLAIMANT 2 (y)	76.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			6.31	5.44
(12)	APV FOR CLAIMANT 2			17.26	12.43
(13)	APV FOR BOTH CLAIMANTS ALIVE			5.49	4.83
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			12.58	8.21
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,260	11,260
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,507	7,507
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			47,349	40,874
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			156,280	116,033
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			625.60	625.60
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,507.20	7,507.20
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,000.00	6,000.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			7.108	6.053
(23)	APV OF MEDICAL BENEFIT			42,648	36,316

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.131	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.141	0.028	0.869	0.975	0.847	0.150	0.962	1.030	1.060
2	0.151	0.032	0.747	0.947	0.707	0.279	0.925	1.061	1.124
3	0.162	0.035	0.634	0.917	0.581	0.388	0.889	1.093	1.191
4	0.173	0.039	0.531	0.885	0.470	0.476	0.855	1.126	1.262
5	0.186	0.044	0.439	0.850	0.373	0.543	0.822	1.159	1.338
6	0.201	0.049	0.357	0.812	0.290	0.589	0.790	1.194	1.419
7	0.218	0.055	0.285	0.772	0.220	0.617	0.760	1.230	1.504
8	0.237	0.061	0.223	0.730	0.163	0.627	0.731	1.267	1.594
9	0.258	0.068	0.170	0.686	0.117	0.622	0.703	1.305	1.689
10	0.282	0.075	0.126	0.639	0.081	0.604	0.676	1.344	1.791
11	0.309	0.084	0.091	0.591	0.054	0.574	0.650	1.384	1.898
12	0.339	0.094	0.063	0.541	0.034	0.536	0.625	1.426	2.012
13	0.371	0.105	0.041	0.491	0.020	0.491	0.601	1.469	2.133
14	0.406	0.116	0.026	0.439	0.011	0.442	0.577	1.513	2.261
15	0.444	0.129	0.015	0.388	0.006	0.392	0.555	1.558	2.397
16	0.475	0.142	0.009	0.338	0.003	0.341	0.534	1.605	2.540
17	0.506	0.156	0.005	0.290	0.001	0.292	0.513	1.653	2.693
18	0.539	0.171	0.002	0.245	0.001	0.246	0.494	1.702	2.854
19	0.575	0.186	0.001	0.203	0.000	0.204	0.475	1.754	3.026
20	0.616	0.203	0.000	0.165	0.000	0.166	0.456	1.806	3.207
21	0.661	0.220	0.000	0.132	0.000	0.132	0.439	1.860	3.400
22	0.713	0.238	0.000	0.103	0.000	0.103	0.422	1.916	3.604
23	0.773	0.257	0.000	0.078	0.000	0.078	0.406	1.974	3.820
24	0.841	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	0.918	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	1.000	0.317	0.000	0.030	0.000	0.030	0.361	2.157	4.549
27	-	0.339	-	0.020	-	0.020	0.347	2.221	4.822
28	-	0.361	-	0.013	-	0.013	0.333	2.288	5.112
29	-	0.384	-	0.009	-	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF WEIGHTED NOMINAL BENEFITS PER CLAIM FOR ACTIVE MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 42			NOMINAL ESTIMATES AT ENTITLEMENT AGE 47			NOMINAL ESTIMATES AT ENTITLEMENT AGE 52			NOMINAL ESTIMATES AT ENTITLEMENT AGE 57			NOMINAL ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	1,015,482	2,237,281	90,688	928,794	2,109,477	128,051	823,483	1,943,903	174,163	701,563	1,732,906	238,736	566,240	1,472,039	321,231
20 - 24	908,550	1,784,523	71,205	830,990	1,682,583	104,915	736,768	1,550,516	146,668	627,687	1,382,218	205,050	506,614	1,174,143	279,547
25 - 29	792,066	1,347,696	49,026	724,450	1,270,709	78,784	642,309	1,170,970	115,837	547,212	1,043,870	167,533	441,662	886,728	233,383
30 - 34	691,767	1,019,640	29,627	632,713	961,394	55,990	560,973	885,933	89,011	477,919	789,771	134,969	385,734	670,881	193,395
35 - 39	604,389	771,721	14,168	552,794	727,637	37,533	490,116	670,524	66,970	417,552	597,744	107,841	337,011	507,761	159,698
40 - 44	529,577	585,774	-	484,369	552,312	20,825	429,449	508,961	47,239	365,867	453,717	83,811	295,296	385,415	130,110
45 - 49	529,577	585,774	-	429,521	424,276	-	380,819	390,975	24,374	324,438	348,537	57,969	261,858	296,069	100,342
50 - 54	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	291,210	271,007	31,609	235,039	230,210	71,287
55 - 59	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	216,321	183,544	38,862
60 - 64	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	207,764	157,159	8,577
65 - 69	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
70 - 74	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
75 - 79	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
80 - 84	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-
85 - 89	529,577	585,774	-	429,521	424,276	-	341,817	304,005	-	268,019	216,071	-	206,708	151,934	-

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 67			NOMINAL ESTIMATES AT ENTITLEMENT AGE 72			NOMINAL ESTIMATES AT ENTITLEMENT AGE 80			NOMINAL ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	421,688	1,164,407	424,335	279,326	831,664	536,756	100,619	346,250	632,383	570,797	1,458,451	327,526
20 - 24	377,283	928,767	372,535	249,912	663,360	473,885	90,024	276,180	560,763	510,691	1,163,305	285,175
25 - 29	328,913	701,417	315,425	217,871	500,978	404,787	78,482	208,575	482,262	445,216	878,543	238,286
30 - 34	287,262	530,678	266,033	190,282	379,030	345,097	68,544	157,803	414,514	388,839	664,689	197,672
35 - 39	250,978	401,647	224,037	166,248	286,872	294,018	59,886	119,435	356,225	339,724	503,074	163,432
40 - 44	219,912	304,870	187,412	145,669	217,750	249,689	52,473	90,657	305,846	297,673	381,858	133,377
45 - 49	195,010	234,196	152,576	129,174	167,271	209,267	46,531	69,641	261,591	256,440	287,348	107,955
50 - 54	175,037	182,100	119,945	115,945	130,063	172,661	41,766	54,150	222,782	223,196	218,459	83,080
55 - 59	161,098	145,187	86,171	106,711	103,698	137,297	38,440	43,173	187,921	197,487	169,084	56,329
60 - 64	154,726	124,315	56,730	102,490	88,791	108,637	36,919	36,967	162,090	174,406	135,923	39,384
65 - 69	155,432	108,183	11,360	102,958	77,268	68,417	37,088	32,170	130,581	137,597	97,515	30,510
70 - 74	157,352	106,419	-	114,904	74,703	13,655	41,391	31,101	96,072	114,904	74,703	13,655
75 - 79	157,352	106,419	-	119,183	75,291	-	56,324	35,625	42,277	56,324	35,625	42,277
80 - 84	157,352	106,419	-	119,183	75,291	-	73,492	42,648	-	73,492	42,648	-
85 - 89	157,352	106,419	-	119,183	75,291	-	73,492	42,648	-	73,492	42,648	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8, EXHIBIT 5, SHEET 2A, COL. (16), (17), (18)
(5)-(7) SECTION 8, EXHIBIT 5, SHEET 2B, COL. (16), (17), (18)
(8)-(10) SECTION 8, EXHIBIT 5, SHEET 2C, COL. (16), (17), (18)
(11)-(13) SECTION 8, EXHIBIT 5, SHEET 2D, COL. (16), (17), (18)
(14)-(16) SECTION 8, EXHIBIT 5, SHEET 2E, COL. (16), (17), (18)
(17)-(19) SECTION 8, EXHIBIT 5, SHEET 2F, COL. (16), (17), (18)
(20) - (22) SECTION 8, EXHIBIT 5, SHEET 2G, COL. (16), (17), (18)
(23) - (25) SECTION 8, EXHIBIT 5, SHEET 2H, COL. (16), (17), (18)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25) USING WEIGHTS FROM SECTION 8, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

CALCULATION OF WEIGHTED DISCOUNTED BENEFITS PER CLAIM FOR ACTIVE MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 42			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 47			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 52			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 57			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	176,606	371,479	12,589	145,152	325,489	16,038	115,620	276,522	19,837	88,186	225,214	24,723	63,394	173,047	30,146
20 - 24	184,848	346,632	11,564	151,926	303,718	15,373	121,016	258,027	19,543	92,301	210,151	24,841	66,352	161,473	30,690
25 - 29	196,062	318,497	9,687	161,143	279,066	14,045	128,358	237,083	18,779	97,901	193,093	24,693	70,378	148,366	31,173
30 - 34	208,334	293,175	7,122	171,228	256,879	12,144	136,391	218,234	17,557	104,029	177,742	24,204	74,782	136,571	31,429
35 - 39	221,454	269,965	4,144	182,012	236,543	9,904	144,981	200,957	16,071	110,580	163,670	23,529	79,492	125,759	31,575
40 - 44	236,082	249,312	-	194,035	218,447	6,686	154,558	185,583	13,792	117,884	151,149	22,247	84,743	116,138	31,299
45 - 49	236,082	249,312	-	209,340	204,163	-	166,749	173,448	8,658	127,183	141,266	18,722	91,428	108,544	29,367
50 - 54	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	138,890	133,640	12,420	99,843	102,684	25,384
55 - 59	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	111,801	99,606	16,836
60 - 64	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	125,617	99,774	4,347
65 - 69	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
70 - 74	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
75 - 79	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
80 - 84	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-
85 - 89	236,082	249,312	-	209,340	204,163	-	182,098	164,085	-	155,524	129,634	-	129,978	100,315	-

CURRENT AGE GROUP OF ACTIVE MINERS	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 67			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 72			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 80			DISCOUNTED ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	41,803	122,433	35,934	24,392	77,359	40,821	7,089	25,914	40,028	68,234	178,772	29,760
20 - 24	43,754	114,244	36,906	25,531	72,185	42,162	7,420	24,181	41,524	71,418	166,815	30,260
25 - 29	46,409	104,971	38,019	27,080	66,326	43,816	7,870	22,218	43,447	75,751	153,275	30,674
30 - 34	49,313	96,626	39,013	28,775	61,053	45,448	8,362	20,451	45,435	80,492	141,089	30,846
35 - 39	52,419	88,976	39,972	30,587	56,219	47,111	8,889	18,832	47,505	85,561	129,919	30,899
40 - 44	55,881	82,169	40,682	32,607	51,918	48,675	9,476	17,392	49,623	91,213	119,980	30,505
45 - 49	60,289	76,796	40,295	35,179	48,524	49,634	10,224	16,254	51,638	93,231	107,914	29,671
50 - 54	65,839	72,651	38,541	38,417	45,904	49,824	11,165	15,377	53,505	96,561	98,142	27,309
55 - 59	73,724	70,473	33,687	43,018	44,528	48,203	12,502	14,916	54,911	101,503	90,655	21,798
60 - 64	82,835	70,591	25,945	48,335	44,603	44,619	14,047	14,941	55,408	99,987	81,876	17,367
65 - 69	101,242	74,740	6,321	59,075	47,224	34,188	17,168	15,819	54,308	87,193	65,469	15,411
70 - 74	106,592	76,463	-	80,213	55,548	8,302	23,312	18,607	48,612	80,213	55,548	8,302
75 - 79	106,592	76,463	-	86,528	58,225	-	40,138	26,969	27,068	40,138	26,969	27,068
80 - 84	106,592	76,463	-	86,528	58,225	-	58,912	36,316	-	58,912	36,316	-
85 - 89	106,592	76,463	-	86,528	58,225	-	58,912	36,316	-	58,912	36,316	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8, EXHIBIT 5, SHEET 2A, COL. (19), (20), (21)
(5)-(7) SECTION 8, EXHIBIT 5, SHEET 2B, COL. (19), (20), (21)
(8)-(10) SECTION 8, EXHIBIT 5, SHEET 2C, COL. (19), (20), (21)
(11)-(13) SECTION 8, EXHIBIT 5, SHEET 2D, COL. (19), (20), (21)
(14)-(16) SECTION 8, EXHIBIT 5, SHEET 2E, COL. (19), (20), (21)
(17)-(19) SECTION 8, EXHIBIT 5, SHEET 2F, COL. (19), (20), (21)
(20) - (22) SECTION 8, EXHIBIT 5, SHEET 2G, COL. (19), (20), (21)
(23) - (25) SECTION 8, EXHIBIT 5, SHEET 2H, COL. (19), (20), (21)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25) USING WEIGHTS FROM SECTION 8, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

WEIGHTS FOR DEFERRED ANNUITY VALUES

		Active Miners	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-85
Age @ Entitlement	42	Weights for deferred annuity values - current age to age @ entitlement	1.9%	1.9%	1.9%	1.9%	1.9%	1.9%							
	47		3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	2.0%						
	52		7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	4.6%					
	57		20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.3%	18.6%				
	62		37.6%	37.6%	37.6%	37.6%	37.6%	37.6%	39.2%	41.2%	44.3%	52.0%			
	67		21.1%	21.1%	21.1%	21.1%	21.1%	21.1%	21.9%	23.3%	25.7%	34.5%	69.2%		
	72		7.4%	7.4%	7.4%	7.4%	7.4%	7.4%	8.0%	8.4%	9.0%	12.1%	28.2%	100.0%	
	80		1.9%	1.9%	1.9%	1.9%	1.9%	1.9%	2.0%	2.2%	2.5%	1.3%	2.6%	0.0%	
			100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

The Weights for each age grouping represent the conditional probability of a Miner claim filing being entitled

(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	175,258	116,575
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

20	0.129	-	0.353	1.000	0.353	0.647	0.456	1.806	3.207
21	0.142	-	0.308	1.000	0.308	0.692	0.439	1.860	3.400
22	0.156	-	0.264	1.000	0.264	0.736	0.422	1.916	3.604
23	0.171	-	0.223	1.000	0.223	0.777	0.406	1.974	3.820
24	0.186	-	0.185	1.000	0.185	0.815	0.390	2.033	4.049
25	0.203	-	0.150	1.000	0.150	0.850	0.375	2.094	4.292
26	0.220	-	0.120	1.000	0.120	0.880	0.361	2.157	4.549
27	0.238	-	0.094	1.000	0.094	0.906	0.347	2.221	4.822
28	0.257	-	0.071	1.000	0.071	0.929	0.333	2.288	5.112
29	0.276	-	0.053	1.000	0.053	0.947	0.321	2.357	5.418
30	0.297	-	0.038	1.000	0.038	0.962	0.308	2.427	5.743
31	0.317	-	0.027	1.000	0.027	0.973	0.296	2.500	6.088
32	0.339	-	0.018	1.000	0.018	0.982	0.285	2.575	6.453
33	0.361	-	0.012	1.000	0.012	0.988	0.274	2.652	6.841
34	0.384	-	0.008	1.000	0.008	0.992	0.264	2.732	7.251
35	0.405	-	0.005	1.000	0.005	0.995	0.253	2.814	7.686
36	0.425	-	0.003	1.000	0.003	0.997	0.244	2.898	8.147
37	0.444	-	0.002	1.000	0.002	0.998	0.234	2.985	8.636
38	0.464	-	0.001	1.000	0.001	0.999	0.225	3.075	9.154
39	0.482	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.495	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	1.000	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	52,921	45,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	1		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		10/1/2000	
(15)	**DATE OF FILING**		10/16/2000	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		68	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.06	9.90
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.06	9.90
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,145.35	61.79
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	98,081	74,350
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	16.542	12.072
(29)	APV OF MEDICAL BENEFIT	99,252	72,429

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.050	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	-	0.950	1.000	0.950	0.050	0.962	1.030	1.060
2	0.059	-	0.898	1.000	0.898	0.102	0.925	1.061	1.124
3	0.064	-	0.844	1.000	0.844	0.156	0.889	1.093	1.191
4	0.069	-	0.790	1.000	0.790	0.210	0.855	1.126	1.262
5	0.074	-	0.736	1.000	0.736	0.264	0.822	1.159	1.338
6	0.080	-	0.682	1.000	0.682	0.318	0.790	1.194	1.419
7	0.086	-	0.628	1.000	0.628	0.372	0.760	1.230	1.504
8	0.094	-	0.573	1.000	0.573	0.427	0.731	1.267	1.594
9	0.102	-	0.520	1.000	0.520	0.480	0.703	1.305	1.689
10	0.111	-	0.467	1.000	0.467	0.533	0.676	1.344	1.791
11	0.121	-	0.415	1.000	0.415	0.585	0.650	1.384	1.898
12	0.131	-	0.364	1.000	0.364	0.636	0.625	1.426	2.012
13	0.141	-	0.317	1.000	0.317	0.683	0.601	1.469	2.133
14	0.151	-	0.272	1.000	0.272	0.728	0.577	1.513	2.261
15	0.162	-	0.231	1.000	0.231	0.769	0.555	1.558	2.397
16	0.173	-	0.194	1.000	0.194	0.806	0.534	1.605	2.540
17	0.186	-	0.160	1.000	0.160	0.840	0.513	1.653	2.693
18	0.201	-	0.130	1.000	0.130	0.870	0.494	1.702	2.854
19	0.218	-	0.104	1.000	0.104	0.896	0.475	1.754	3.026
20	0.237	-	0.081	1.000	0.081	0.919	0.456	1.806	3.207
21	0.258	-	0.062	1.000	0.062	0.938	0.439	1.860	3.400
22	0.282	-	0.046	1.000	0.046	0.954	0.422	1.916	3.604
23	0.309	-	0.033	1.000	0.033	0.967	0.406	1.974	3.820
24	0.339	-	0.023	1.000	0.023	0.977	0.390	2.033	4.049
25	0.371	-	0.015	1.000	0.015	0.985	0.375	2.094	4.292
26	0.406	-	0.009	1.000	0.009	0.991	0.361	2.157	4.549
27	0.444	-	0.006	1.000	0.006	0.994	0.347	2.221	4.822
28	0.475	-	0.003	1.000	0.003	0.997	0.333	2.288	5.112
29	0.506	-	0.002	1.000	0.002	0.998	0.321	2.357	5.418
30	0.539	-	0.001	1.000	0.001	0.999	0.308	2.427	5.743
31	0.575	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.616	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.661	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.713	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.773	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.841	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.918	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	1.000	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	2		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		1/9/2004	
(15)	**DATE OF FILING**		1/15/2004	
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	M	
(17)	**CLAIMANT 2 (y)**	0		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.60	6.38
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.60	6.38
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,150.81	65.31
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	57,091	47,906
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.786	7.239
(29)	APV OF MEDICAL BENEFIT	52,714	43,432

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.102	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.111	-	0.898	1.000	0.898	0.102	0.962	1.030	1.060
2	0.121	-	0.798	1.000	0.798	0.202	0.925	1.061	1.124
3	0.131	-	0.701	1.000	0.701	0.299	0.889	1.093	1.191
4	0.141	-	0.610	1.000	0.610	0.390	0.855	1.126	1.262
5	0.151	-	0.524	1.000	0.524	0.476	0.822	1.159	1.338
6	0.162	-	0.445	1.000	0.445	0.555	0.790	1.194	1.419
7	0.173	-	0.373	1.000	0.373	0.627	0.760	1.230	1.504
8	0.186	-	0.308	1.000	0.308	0.692	0.731	1.267	1.594
9	0.201	-	0.251	1.000	0.251	0.749	0.703	1.305	1.689
10	0.218	-	0.200	1.000	0.200	0.800	0.676	1.344	1.791
11	0.237	-	0.157	1.000	0.157	0.843	0.650	1.384	1.898
12	0.258	-	0.119	1.000	0.119	0.881	0.625	1.426	2.012
13	0.282	-	0.089	1.000	0.089	0.911	0.601	1.469	2.133
14	0.309	-	0.064	1.000	0.064	0.936	0.577	1.513	2.261
15	0.339	-	0.044	1.000	0.044	0.956	0.555	1.558	2.397
16	0.371	-	0.029	1.000	0.029	0.971	0.534	1.605	2.540
17	0.406	-	0.018	1.000	0.018	0.982	0.513	1.653	2.693
18	0.444	-	0.011	1.000	0.011	0.989	0.494	1.702	2.854
19	0.475	-	0.006	1.000	0.006	0.994	0.475	1.754	3.026
20	0.506	-	0.003	1.000	0.003	0.997	0.456	1.806	3.207
21	0.539	-	0.002	1.000	0.002	0.998	0.439	1.860	3.400
22	0.575	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.616	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.661	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.713	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.773	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.841	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.918	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	1.000	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	3		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		1/31/2008	
(15)	**DATE OF FILING**		2/4/2008	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		65	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.56	11.34
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.56	11.34
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,142.85	60.35
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	116,818	85,158
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	20.432	14.212
(29)	APV OF MEDICAL BENEFIT	122,590	85,271

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.037	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.041	-	0.963	1.000	0.963	0.037	0.962	1.030	1.060
2	0.046	-	0.924	1.000	0.924	0.076	0.925	1.061	1.124
3	0.050	-	0.882	1.000	0.882	0.118	0.889	1.093	1.191
4	0.055	-	0.838	1.000	0.838	0.162	0.855	1.126	1.262
5	0.059	-	0.792	1.000	0.792	0.208	0.822	1.159	1.338
6	0.064	-	0.745	1.000	0.745	0.255	0.790	1.194	1.419
7	0.069	-	0.697	1.000	0.697	0.303	0.760	1.230	1.504
8	0.074	-	0.649	1.000	0.649	0.351	0.731	1.267	1.594
9	0.080	-	0.601	1.000	0.601	0.399	0.703	1.305	1.689
10	0.086	-	0.553	1.000	0.553	0.447	0.676	1.344	1.791
11	0.094	-	0.506	1.000	0.506	0.494	0.650	1.384	1.898
12	0.102	-	0.458	1.000	0.458	0.542	0.625	1.426	2.012
13	0.111	-	0.411	1.000	0.411	0.589	0.601	1.469	2.133
14	0.121	-	0.366	1.000	0.366	0.634	0.577	1.513	2.261
15	0.131	-	0.321	1.000	0.321	0.679	0.555	1.558	2.397
16	0.141	-	0.279	1.000	0.279	0.721	0.534	1.605	2.540
17	0.151	-	0.240	1.000	0.240	0.760	0.513	1.653	2.693
18	0.162	-	0.204	1.000	0.204	0.796	0.494	1.702	2.854
19	0.173	-	0.171	1.000	0.171	0.829	0.475	1.754	3.026
20	0.186	-	0.141	1.000	0.141	0.859	0.456	1.806	3.207
21	0.201	-	0.115	1.000	0.115	0.885	0.439	1.860	3.400
22	0.218	-	0.092	1.000	0.092	0.908	0.422	1.916	3.604
23	0.237	-	0.072	1.000	0.072	0.928	0.406	1.974	3.820
24	0.258	-	0.055	1.000	0.055	0.945	0.390	2.033	4.049
25	0.282	-	0.041	1.000	0.041	0.959	0.375	2.094	4.292
26	0.309	-	0.029	1.000	0.029	0.971	0.361	2.157	4.549
27	0.339	-	0.020	1.000	0.020	0.980	0.347	2.221	4.822
28	0.371	-	0.013	1.000	0.013	0.987	0.333	2.288	5.112
29	0.406	-	0.008	1.000	0.008	0.992	0.321	2.357	5.418
30	0.444	-	0.005	1.000	0.005	0.995	0.308	2.427	5.743
31	0.475	-	0.003	1.000	0.003	0.997	0.296	2.500	6.088
32	0.506	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.539	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.575	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.616	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.661	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.713	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.773	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.841	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.918	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	1.000	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	4		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/4/2008	
(15)	**DATE OF FILING**		11/10/2008	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		65	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.56	11.34
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.56	11.34
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,142.85	60.35
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	116,818	85,158
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	20.432	14.212
(29)	APV OF MEDICAL BENEFIT	122,590	85,271

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.037	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.041	-	0.963	1.000	0.963	0.037	0.962	1.030	1.060
2	0.046	-	0.924	1.000	0.924	0.076	0.925	1.061	1.124
3	0.050	-	0.882	1.000	0.882	0.118	0.889	1.093	1.191
4	0.055	-	0.838	1.000	0.838	0.162	0.855	1.126	1.262
5	0.059	-	0.792	1.000	0.792	0.208	0.822	1.159	1.338
6	0.064	-	0.745	1.000	0.745	0.255	0.790	1.194	1.419
7	0.069	-	0.697	1.000	0.697	0.303	0.760	1.230	1.504
8	0.074	-	0.649	1.000	0.649	0.351	0.731	1.267	1.594
9	0.080	-	0.601	1.000	0.601	0.399	0.703	1.305	1.689
10	0.086	-	0.553	1.000	0.553	0.447	0.676	1.344	1.791
11	0.094	-	0.506	1.000	0.506	0.494	0.650	1.384	1.898
12	0.102	-	0.458	1.000	0.458	0.542	0.625	1.426	2.012
13	0.111	-	0.411	1.000	0.411	0.589	0.601	1.469	2.133
14	0.121	-	0.366	1.000	0.366	0.634	0.577	1.513	2.261
15	0.131	-	0.321	1.000	0.321	0.679	0.555	1.558	2.397
16	0.141	-	0.279	1.000	0.279	0.721	0.534	1.605	2.540
17	0.151	-	0.240	1.000	0.240	0.760	0.513	1.653	2.693
18	0.162	-	0.204	1.000	0.204	0.796	0.494	1.702	2.854
19	0.173	-	0.171	1.000	0.171	0.829	0.475	1.754	3.026
20	0.186	-	0.141	1.000	0.141	0.859	0.456	1.806	3.207
21	0.201	-	0.115	1.000	0.115	0.885	0.439	1.860	3.400
22	0.218	-	0.092	1.000	0.092	0.908	0.422	1.916	3.604
23	0.237	-	0.072	1.000	0.072	0.928	0.406	1.974	3.820
24	0.258	-	0.055	1.000	0.055	0.945	0.390	2.033	4.049
25	0.282	-	0.041	1.000	0.041	0.959	0.375	2.094	4.292
26	0.309	-	0.029	1.000	0.029	0.971	0.361	2.157	4.549
27	0.339	-	0.020	1.000	0.020	0.980	0.347	2.221	4.822
28	0.371	-	0.013	1.000	0.013	0.987	0.333	2.288	5.112
29	0.406	-	0.008	1.000	0.008	0.992	0.321	2.357	5.418
30	0.444	-	0.005	1.000	0.005	0.995	0.308	2.427	5.743
31	0.475	-	0.003	1.000	0.003	0.997	0.296	2.500	6.088
32	0.506	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.539	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.575	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.616	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.661	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.713	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.773	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.841	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.918	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	1.000	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
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68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
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84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
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104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
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108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
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110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
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116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	5		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		12/17/2010	
(15)	**DATE OF FILING**		12/23/2010	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		59	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	21.97	14.68
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	21.97	14.68
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,136.44	57.01
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	164,944	110,224
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	31.323	19.551
(29)	APV OF MEDICAL BENEFIT	187,938	117,307

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.020	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.022	-	0.980	1.000	0.980	0.020	0.962	1.030	1.060
2	0.024	-	0.958	1.000	0.958	0.042	0.925	1.061	1.124
3	0.027	-	0.935	1.000	0.935	0.065	0.889	1.093	1.191
4	0.030	-	0.910	1.000	0.910	0.090	0.855	1.126	1.262
5	0.033	-	0.883	1.000	0.883	0.117	0.822	1.159	1.338
6	0.037	-	0.854	1.000	0.854	0.146	0.790	1.194	1.419
7	0.041	-	0.823	1.000	0.823	0.177	0.760	1.230	1.504
8	0.046	-	0.789	1.000	0.789	0.211	0.731	1.267	1.594
9	0.050	-	0.753	1.000	0.753	0.247	0.703	1.305	1.689
10	0.055	-	0.716	1.000	0.716	0.284	0.676	1.344	1.791
11	0.059	-	0.676	1.000	0.676	0.324	0.650	1.384	1.898
12	0.064	-	0.636	1.000	0.636	0.364	0.625	1.426	2.012
13	0.069	-	0.595	1.000	0.595	0.405	0.601	1.469	2.133
14	0.074	-	0.555	1.000	0.555	0.445	0.577	1.513	2.261
15	0.080	-	0.514	1.000	0.514	0.486	0.555	1.558	2.397
16	0.086	-	0.473	1.000	0.473	0.527	0.534	1.605	2.540
17	0.094	-	0.432	1.000	0.432	0.568	0.513	1.653	2.693
18	0.102	-	0.391	1.000	0.391	0.609	0.494	1.702	2.854
19	0.111	-	0.351	1.000	0.351	0.649	0.475	1.754	3.026
20	0.121	-	0.312	1.000	0.312	0.688	0.456	1.806	3.207
21	0.131	-	0.275	1.000	0.275	0.725	0.439	1.860	3.400
22	0.141	-	0.239	1.000	0.239	0.761	0.422	1.916	3.604
23	0.151	-	0.205	1.000	0.205	0.795	0.406	1.974	3.820
24	0.162	-	0.174	1.000	0.174	0.826	0.390	2.033	4.049
25	0.173	-	0.146	1.000	0.146	0.854	0.375	2.094	4.292
26	0.186	-	0.121	1.000	0.121	0.879	0.361	2.157	4.549
27	0.201	-	0.098	1.000	0.098	0.902	0.347	2.221	4.822
28	0.218	-	0.078	1.000	0.078	0.922	0.333	2.288	5.112
29	0.237	-	0.061	1.000	0.061	0.939	0.321	2.357	5.418
30	0.258	-	0.047	1.000	0.047	0.953	0.308	2.427	5.743
31	0.282	-	0.035	1.000	0.035	0.965	0.296	2.500	6.088
32	0.309	-	0.025	1.000	0.025	0.975	0.285	2.575	6.453
33	0.339	-	0.017	1.000	0.017	0.983	0.274	2.652	6.841
34	0.371	-	0.011	1.000	0.011	0.989	0.264	2.732	7.251
35	0.406	-	0.007	1.000	0.007	0.993	0.253	2.814	7.686
36	0.444	-	0.004	1.000	0.004	0.996	0.244	2.898	8.147
37	0.475	-	0.002	1.000	0.002	0.998	0.234	2.985	8.636
38	0.506	-	0.001	1.000	0.001	0.999	0.225	3.075	9.154
39	0.539	-	0.001	1.000	0.001	0.999	0.217	3.167	9.704
40	0.575	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.616	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.661	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.713	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.773	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.841	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.918	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	1.000	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	6		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		9/1/1997	
(15)	**DATE OF FILING**		10/28/1997	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		68	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.06	9.90
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.06	9.90
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,145.35	61.79
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	98,081	74,350
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	16.542	12.072
(29)	APV OF MEDICAL BENEFIT	99,252	72,429

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.050	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	-	0.950	1.000	0.950	0.050	0.962	1.030	1.060
2	0.059	-	0.898	1.000	0.898	0.102	0.925	1.061	1.124
3	0.064	-	0.844	1.000	0.844	0.156	0.889	1.093	1.191
4	0.069	-	0.790	1.000	0.790	0.210	0.855	1.126	1.262
5	0.074	-	0.736	1.000	0.736	0.264	0.822	1.159	1.338
6	0.080	-	0.682	1.000	0.682	0.318	0.790	1.194	1.419
7	0.086	-	0.628	1.000	0.628	0.372	0.760	1.230	1.504
8	0.094	-	0.573	1.000	0.573	0.427	0.731	1.267	1.594
9	0.102	-	0.520	1.000	0.520	0.480	0.703	1.305	1.689
10	0.111	-	0.467	1.000	0.467	0.533	0.676	1.344	1.791
11	0.121	-	0.415	1.000	0.415	0.585	0.650	1.384	1.898
12	0.131	-	0.364	1.000	0.364	0.636	0.625	1.426	2.012
13	0.141	-	0.317	1.000	0.317	0.683	0.601	1.469	2.133
14	0.151	-	0.272	1.000	0.272	0.728	0.577	1.513	2.261
15	0.162	-	0.231	1.000	0.231	0.769	0.555	1.558	2.397
16	0.173	-	0.194	1.000	0.194	0.806	0.534	1.605	2.540
17	0.186	-	0.160	1.000	0.160	0.840	0.513	1.653	2.693
18	0.201	-	0.130	1.000	0.130	0.870	0.494	1.702	2.854
19	0.218	-	0.104	1.000	0.104	0.896	0.475	1.754	3.026
20	0.237	-	0.081	1.000	0.081	0.919	0.456	1.806	3.207
21	0.258	-	0.062	1.000	0.062	0.938	0.439	1.860	3.400
22	0.282	-	0.046	1.000	0.046	0.954	0.422	1.916	3.604
23	0.309	-	0.033	1.000	0.033	0.967	0.406	1.974	3.820
24	0.339	-	0.023	1.000	0.023	0.977	0.390	2.033	4.049
25	0.371	-	0.015	1.000	0.015	0.985	0.375	2.094	4.292
26	0.406	-	0.009	1.000	0.009	0.991	0.361	2.157	4.549
27	0.444	-	0.006	1.000	0.006	0.994	0.347	2.221	4.822
28	0.475	-	0.003	1.000	0.003	0.997	0.333	2.288	5.112
29	0.506	-	0.002	1.000	0.002	0.998	0.321	2.357	5.418
30	0.539	-	0.001	1.000	0.001	0.999	0.308	2.427	5.743
31	0.575	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.616	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.661	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.713	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.773	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.841	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.918	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	1.000	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	7		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/1/1979	
(15)	**DATE OF FILING**		12/4/1979	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		95	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.17	2.08
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.17	2.08
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,156.24	69.61
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	16,259	15,630
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.233	2.142
(29)	APV OF MEDICAL BENEFIT	13,397	12,855

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.444	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.475	-	0.556	1.000	0.556	0.444	0.962	1.030	1.060
2	0.506	-	0.292	1.000	0.292	0.708	0.925	1.061	1.124
3	0.539	-	0.144	1.000	0.144	0.856	0.889	1.093	1.191
4	0.575	-	0.066	1.000	0.066	0.934	0.855	1.126	1.262
5	0.616	-	0.028	1.000	0.028	0.972	0.822	1.159	1.338
6	0.661	-	0.011	1.000	0.011	0.989	0.790	1.194	1.419
7	0.713	-	0.004	1.000	0.004	0.996	0.760	1.230	1.504
8	0.773	-	0.001	1.000	0.001	0.999	0.731	1.267	1.594
9	0.841	-	0.000	1.000	0.000	1.000	0.703	1.305	1.689
10	0.918	-	0.000	1.000	0.000	1.000	0.676	1.344	1.791
11	1.000	-	0.000	1.000	0.000	1.000	0.650	1.384	1.898
12	-	-	-	1.000	-	1.000	0.625	1.426	2.012
13	-	-	-	1.000	-	1.000	0.601	1.469	2.133
14	-	-	-	1.000	-	1.000	0.577	1.513	2.261
15	-	-	-	1.000	-	1.000	0.555	1.558	2.397
16	-	-	-	1.000	-	1.000	0.534	1.605	2.540
17	-	-	-	1.000	-	1.000	0.513	1.653	2.693
18	-	-	-	1.000	-	1.000	0.494	1.702	2.854
19	-	-	-	1.000	-	1.000	0.475	1.754	3.026
20	-	-	-	1.000	-	1.000	0.456	1.806	3.207
21	-	-	-	1.000	-	1.000	0.439	1.860	3.400
22	-	-	-	1.000	-	1.000	0.422	1.916	3.604
23	-	-	-	1.000	-	1.000	0.406	1.974	3.820
24	-	-	-	1.000	-	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
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55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
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75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	8		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		7/1/1987	
(15)	**DATE OF FILING**		8/18/1987	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		78	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.14	6.05
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.14	6.05
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.27	65.64
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	53,620	45,434
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.181	6.818
(29)	APV OF MEDICAL BENEFIT	49,086	40,907

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.111	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.121	-	0.889	1.000	0.889	0.111	0.962	1.030	1.060
2	0.131	-	0.781	1.000	0.781	0.219	0.925	1.061	1.124
3	0.141	-	0.679	1.000	0.679	0.321	0.889	1.093	1.191
4	0.151	-	0.583	1.000	0.583	0.417	0.855	1.126	1.262
5	0.162	-	0.495	1.000	0.495	0.505	0.822	1.159	1.338
6	0.173	-	0.415	1.000	0.415	0.585	0.790	1.194	1.419
7	0.186	-	0.343	1.000	0.343	0.657	0.760	1.230	1.504
8	0.201	-	0.279	1.000	0.279	0.721	0.731	1.267	1.594
9	0.218	-	0.223	1.000	0.223	0.777	0.703	1.305	1.689
10	0.237	-	0.174	1.000	0.174	0.826	0.676	1.344	1.791
11	0.258	-	0.133	1.000	0.133	0.867	0.650	1.384	1.898
12	0.282	-	0.099	1.000	0.099	0.901	0.625	1.426	2.012
13	0.309	-	0.071	1.000	0.071	0.929	0.601	1.469	2.133
14	0.339	-	0.049	1.000	0.049	0.951	0.577	1.513	2.261
15	0.371	-	0.032	1.000	0.032	0.968	0.555	1.558	2.397
16	0.406	-	0.020	1.000	0.020	0.980	0.534	1.605	2.540
17	0.444	-	0.012	1.000	0.012	0.988	0.513	1.653	2.693
18	0.475	-	0.007	1.000	0.007	0.993	0.494	1.702	2.854
19	0.506	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.539	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.575	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.616	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.661	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.713	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.773	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.841	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.918	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	1.000	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	9		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		3/1/1989	
(15)	**DATE OF FILING**		3/9/1989	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		70	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.64	9.04
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,146.77	62.65
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	87,390	67,891
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	86,461	65,003

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.064	-	0.941	1.000	0.941	0.059	0.962	1.030	1.060
2	0.069	-	0.880	1.000	0.880	0.120	0.925	1.061	1.124
3	0.074	-	0.820	1.000	0.820	0.180	0.889	1.093	1.191
4	0.080	-	0.759	1.000	0.759	0.241	0.855	1.126	1.262
5	0.086	-	0.699	1.000	0.699	0.301	0.822	1.159	1.338
6	0.094	-	0.639	1.000	0.639	0.361	0.790	1.194	1.419
7	0.102	-	0.579	1.000	0.579	0.421	0.760	1.230	1.504
8	0.111	-	0.520	1.000	0.520	0.480	0.731	1.267	1.594
9	0.121	-	0.462	1.000	0.462	0.538	0.703	1.305	1.689
10	0.131	-	0.406	1.000	0.406	0.594	0.676	1.344	1.791
11	0.141	-	0.353	1.000	0.353	0.647	0.650	1.384	1.898
12	0.151	-	0.303	1.000	0.303	0.697	0.625	1.426	2.012
13	0.162	-	0.257	1.000	0.257	0.743	0.601	1.469	2.133
14	0.173	-	0.216	1.000	0.216	0.784	0.577	1.513	2.261
15	0.186	-	0.178	1.000	0.178	0.822	0.555	1.558	2.397
16	0.201	-	0.145	1.000	0.145	0.855	0.534	1.605	2.540
17	0.218	-	0.116	1.000	0.116	0.884	0.513	1.653	2.693
18	0.237	-	0.091	1.000	0.091	0.909	0.494	1.702	2.854
19	0.258	-	0.069	1.000	0.069	0.931	0.475	1.754	3.026
20	0.282	-	0.051	1.000	0.051	0.949	0.456	1.806	3.207
21	0.309	-	0.037	1.000	0.037	0.963	0.439	1.860	3.400
22	0.339	-	0.025	1.000	0.025	0.975	0.422	1.916	3.604
23	0.371	-	0.017	1.000	0.017	0.983	0.406	1.974	3.820
24	0.406	-	0.011	1.000	0.011	0.989	0.390	2.033	4.049
25	0.444	-	0.006	1.000	0.006	0.994	0.375	2.094	4.292
26	0.475	-	0.003	1.000	0.003	0.997	0.361	2.157	4.549
27	0.506	-	0.002	1.000	0.002	0.998	0.347	2.221	4.822
28	0.539	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.575	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.616	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.661	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.713	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.773	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.841	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.918	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	10		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/1/1992	
(15)	**DATE OF FILING**		11/30/1992	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		79	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.71	5.74
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.71	5.74
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.70	65.95
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	50,379	43,093
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	7.623	6.423
(29)	APV OF MEDICAL BENEFIT	45,740	38,539

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.121	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.131	-	0.879	1.000	0.879	0.121	0.962	1.030	1.060
2	0.141	-	0.764	1.000	0.764	0.236	0.925	1.061	1.124
3	0.151	-	0.656	1.000	0.656	0.344	0.889	1.093	1.191
4	0.162	-	0.557	1.000	0.557	0.443	0.855	1.126	1.262
5	0.173	-	0.467	1.000	0.467	0.533	0.822	1.159	1.338
6	0.186	-	0.386	1.000	0.386	0.614	0.790	1.194	1.419
7	0.201	-	0.314	1.000	0.314	0.686	0.760	1.230	1.504
8	0.218	-	0.251	1.000	0.251	0.749	0.731	1.267	1.594
9	0.237	-	0.196	1.000	0.196	0.804	0.703	1.305	1.689
10	0.258	-	0.150	1.000	0.150	0.850	0.676	1.344	1.791
11	0.282	-	0.111	1.000	0.111	0.889	0.650	1.384	1.898
12	0.309	-	0.080	1.000	0.080	0.920	0.625	1.426	2.012
13	0.339	-	0.055	1.000	0.055	0.945	0.601	1.469	2.133
14	0.371	-	0.036	1.000	0.036	0.964	0.577	1.513	2.261
15	0.406	-	0.023	1.000	0.023	0.977	0.555	1.558	2.397
16	0.444	-	0.014	1.000	0.014	0.986	0.534	1.605	2.540
17	0.475	-	0.008	1.000	0.008	0.992	0.513	1.653	2.693
18	0.506	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.539	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.575	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.616	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.661	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.713	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.773	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.841	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.918	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
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120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
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(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
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(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
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(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	11		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		4/1/1993	
(15)	**DATE OF FILING**		3/23/1995	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		69	M
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	12.33	9.47
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.33	9.47
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	92,582	71,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	15.437	11.437
(29)	APV OF MEDICAL BENEFIT	92,622	68,619

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.059	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.064	-	0.889	1.000	0.889	0.111	0.925	1.061	1.124
3	0.069	-	0.832	1.000	0.832	0.168	0.889	1.093	1.191
4	0.074	-	0.775	1.000	0.775	0.225	0.855	1.126	1.262
5	0.080	-	0.718	1.000	0.718	0.282	0.822	1.159	1.338
6	0.086	-	0.661	1.000	0.661	0.339	0.790	1.194	1.419
7	0.094	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.102	-	0.547	1.000	0.547	0.453	0.731	1.267	1.594
9	0.111	-	0.491	1.000	0.491	0.509	0.703	1.305	1.689
10	0.121	-	0.437	1.000	0.437	0.563	0.676	1.344	1.791
11	0.131	-	0.384	1.000	0.384	0.616	0.650	1.384	1.898
12	0.141	-	0.334	1.000	0.334	0.666	0.625	1.426	2.012
13	0.151	-	0.287	1.000	0.287	0.713	0.601	1.469	2.133
14	0.162	-	0.243	1.000	0.243	0.757	0.577	1.513	2.261
15	0.173	-	0.204	1.000	0.204	0.796	0.555	1.558	2.397
16	0.186	-	0.169	1.000	0.169	0.831	0.534	1.605	2.540
17	0.201	-	0.137	1.000	0.137	0.863	0.513	1.653	2.693
18	0.218	-	0.110	1.000	0.110	0.890	0.494	1.702	2.854
19	0.237	-	0.086	1.000	0.086	0.914	0.475	1.754	3.026
20	0.258	-	0.065	1.000	0.065	0.935	0.456	1.806	3.207
21	0.282	-	0.048	1.000	0.048	0.952	0.439	1.860	3.400
22	0.309	-	0.035	1.000	0.035	0.965	0.422	1.916	3.604
23	0.339	-	0.024	1.000	0.024	0.976	0.406	1.974	3.820
24	0.371	-	0.016	1.000	0.016	0.984	0.390	2.033	4.049
25	0.406	-	0.010	1.000	0.010	0.990	0.375	2.094	4.292
26	0.444	-	0.006	1.000	0.006	0.994	0.361	2.157	4.549
27	0.475	-	0.003	1.000	0.003	0.997	0.347	2.221	4.822
28	0.506	-	0.002	1.000	0.002	0.998	0.333	2.288	5.112
29	0.539	-	0.001	1.000	0.001	0.999	0.321	2.357	5.418
30	0.575	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.616	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.661	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.713	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.773	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.841	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.918	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	12		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		9/1/2009	
(15)	**DATE OF FILING**		3/30/2010	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		70	M
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.64	9.04
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	87,390	67,891
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	86,461	65,003

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.06	-	0.941	1.000	0.941	0.059	0.962	1.030	1.060
2	0.069	-	0.880	1.000	0.880	0.120	0.925	1.061	1.124
3	0.074	-	0.820	1.000	0.820	0.180	0.889	1.093	1.191
4	0.080	-	0.759	1.000	0.759	0.241	0.855	1.126	1.262
5	0.086	-	0.699	1.000	0.699	0.301	0.822	1.159	1.338
6	0.094	-	0.639	1.000	0.639	0.361	0.790	1.194	1.419
7	0.102	-	0.579	1.000	0.579	0.421	0.760	1.230	1.504
8	0.111	-	0.520	1.000	0.520	0.480	0.731	1.267	1.594
9	0.121	-	0.462	1.000	0.462	0.538	0.703	1.305	1.689
10	0.131	-	0.406	1.000	0.406	0.594	0.676	1.344	1.791
11	0.141	-	0.353	1.000	0.353	0.647	0.650	1.384	1.898
12	0.151	-	0.303	1.000	0.303	0.697	0.625	1.426	2.012
13	0.162	-	0.257	1.000	0.257	0.743	0.601	1.469	2.133
14	0.173	-	0.216	1.000	0.216	0.784	0.577	1.513	2.261
15	0.186	-	0.178	1.000	0.178	0.822	0.555	1.558	2.397
16	0.201	-	0.145	1.000	0.145	0.855	0.534	1.605	2.540
17	0.218	-	0.116	1.000	0.116	0.884	0.513	1.653	2.693
18	0.237	-	0.091	1.000	0.091	0.909	0.494	1.702	2.854
19	0.258	-	0.069	1.000	0.069	0.931	0.475	1.754	3.026
20	0.282	-	0.051	1.000	0.051	0.949	0.456	1.806	3.207
21	0.309	-	0.037	1.000	0.037	0.963	0.439	1.860	3.400
22	0.339	-	0.025	1.000	0.025	0.975	0.422	1.916	3.604
23	0.371	-	0.017	1.000	0.017	0.983	0.406	1.974	3.820
24	0.406	-	0.011	1.000	0.011	0.989	0.390	2.033	4.049
25	0.444	-	0.006	1.000	0.006	0.994	0.375	2.094	4.292
26	0.475	-	0.003	1.000	0.003	0.997	0.361	2.157	4.549
27	0.506	-	0.002	1.000	0.002	0.998	0.347	2.221	4.822
28	0.539	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.575	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.616	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.661	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.713	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.773	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.841	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.918	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	13		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	2/1/2001		
(15)	**DATE OF FILING**	3/5/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	81	M	
(17)	**CLAIMANT 2 (y)**	85	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		5.93	5.16
(19)	APV FOR CLAIMANT 2		9.41	7.67
(20)	APV FOR BOTH CLAIMANTS ALIVE		4.37	3.95
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		6.60	4.92
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		98,760	81,473
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		6.629	5.703
(29)	APV OF MEDICAL BENEFIT		39,776	34,221

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.141	0.068	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.151	0.075	0.859	0.932	0.801	0.190	0.962	1.030	1.060
2	0.162	0.084	0.729	0.862	0.629	0.334	0.925	1.061	1.124
3	0.173	0.094	0.611	0.790	0.483	0.436	0.889	1.093	1.191
4	0.186	0.105	0.505	0.716	0.362	0.498	0.855	1.126	1.262
5	0.201	0.116	0.411	0.641	0.263	0.525	0.822	1.159	1.338
6	0.218	0.129	0.328	0.566	0.186	0.523	0.790	1.194	1.419
7	0.237	0.142	0.257	0.493	0.127	0.497	0.760	1.230	1.504
8	0.258	0.156	0.196	0.423	0.083	0.453	0.731	1.267	1.594
9	0.282	0.171	0.145	0.357	0.052	0.399	0.703	1.305	1.689
10	0.309	0.186	0.104	0.296	0.031	0.339	0.676	1.344	1.791
11	0.339	0.203	0.072	0.241	0.017	0.278	0.650	1.384	1.898
12	0.371	0.220	0.048	0.192	0.009	0.222	0.625	1.426	2.012
13	0.406	0.238	0.030	0.150	0.004	0.171	0.601	1.469	2.133
14	0.444	0.257	0.018	0.114	0.002	0.128	0.577	1.513	2.261
15	0.475	0.276	0.010	0.085	0.001	0.093	0.555	1.558	2.397
16	0.506	0.297	0.005	0.062	0.000	0.066	0.534	1.605	2.540
17	0.539	0.317	0.003	0.043	0.000	0.046	0.513	1.653	2.693
18	0.575	0.339	0.001	0.030	0.000	0.031	0.494	1.702	2.854
19	0.616	0.361	0.001	0.020	0.000	0.020	0.475	1.754	3.026
20	0.661	0.384	0.000	0.012	0.000	0.013	0.456	1.806	3.207
21	0.713	0.405	0.000	0.008	0.000	0.008	0.439	1.860	3.400
22	0.773	0.425	0.000	0.005	0.000	0.005	0.422	1.916	3.604
23	0.841	0.444	0.000	0.003	0.000	0.003	0.406	1.974	3.820
24	0.918	0.464	0.000	0.001	0.000	0.001	0.390	2.033	4.049
25	1.000	0.482	0.000	0.001	0.000	0.001	0.375	2.094	4.292
26	-	0.495	-	0.000	-	0.000	0.361	2.157	4.549
27	-	0.500	-	0.000	-	0.000	0.347	2.221	4.822
28	-	0.500	-	0.000	-	0.000	0.333	2.288	5.112
29	-	0.500	-	0.000	-	0.000	0.321	2.357	5.418
30	-	0.500	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	0.500	-	0.000	-	0.000	0.264	2.732	7.251
35	-	1.000	-	0.000	-	0.000	0.253	2.814	7.686
36	-	-	-	-	-	-	0.244	2.898	8.147
37	-	-	-	-	-	-	0.234	2.985	8.636
38	-	-	-	-	-	-	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
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85	-	-	-	-	-	-	0.036	12.336	141.579
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87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	14	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	4/26/2002	
(15)	**DATE OF FILING**	4/30/2002	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	66	M
(17)	**CLAIMANT 2 (y)**	65	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	14.68	10.84
(19)	APV FOR CLAIMANT 2	32.35	19.41
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.73	9.73
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	21.56	10.80
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	305,248	190,583
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	19.031	13.457
(29)	APV OF MEDICAL BENEFIT	114,183	80,740

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.041	0.009	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.046	0.010	0.959	0.991	0.951	0.049	0.962	1.030	1.060
2	0.050	0.011	0.915	0.982	0.899	0.100	0.925	1.061	1.124
3	0.055	0.012	0.869	0.971	0.844	0.152	0.889	1.093	1.191
4	0.059	0.013	0.822	0.960	0.789	0.204	0.855	1.126	1.262
5	0.064	0.014	0.773	0.948	0.732	0.256	0.822	1.159	1.338
6	0.069	0.015	0.723	0.935	0.676	0.306	0.790	1.194	1.419
7	0.074	0.017	0.674	0.921	0.620	0.354	0.760	1.230	1.504
8	0.080	0.018	0.624	0.905	0.565	0.399	0.731	1.267	1.594
9	0.086	0.020	0.574	0.889	0.511	0.442	0.703	1.305	1.689
10	0.094	0.023	0.525	0.871	0.457	0.482	0.676	1.344	1.791
11	0.102	0.025	0.476	0.851	0.405	0.517	0.650	1.384	1.898
12	0.111	0.028	0.427	0.829	0.354	0.548	0.625	1.426	2.012
13	0.121	0.032	0.380	0.806	0.306	0.574	0.601	1.469	2.133
14	0.131	0.035	0.334	0.780	0.260	0.593	0.577	1.513	2.261
15	0.141	0.039	0.290	0.753	0.218	0.606	0.555	1.558	2.397
16	0.151	0.044	0.249	0.723	0.180	0.612	0.534	1.605	2.540
17	0.162	0.049	0.212	0.691	0.146	0.610	0.513	1.653	2.693
18	0.173	0.055	0.177	0.657	0.117	0.602	0.494	1.702	2.854
19	0.186	0.061	0.147	0.621	0.091	0.586	0.475	1.754	3.026
20	0.201	0.068	0.119	0.583	0.070	0.563	0.456	1.806	3.207
21	0.218	0.075	0.095	0.544	0.052	0.535	0.439	1.860	3.400
22	0.237	0.084	0.074	0.503	0.037	0.502	0.422	1.916	3.604
23	0.258	0.094	0.057	0.461	0.026	0.465	0.406	1.974	3.820
24	0.282	0.105	0.042	0.417	0.018	0.424	0.390	2.033	4.049
25	0.309	0.116	0.030	0.374	0.011	0.381	0.375	2.094	4.292
26	0.339	0.129	0.021	0.330	0.007	0.337	0.361	2.157	4.549
27	0.371	0.142	0.014	0.288	0.004	0.294	0.347	2.221	4.822
28	0.406	0.156	0.009	0.247	0.002	0.251	0.333	2.288	5.112
29	0.444	0.171	0.005	0.208	0.001	0.211	0.321	2.357	5.418
30	0.475	0.186	0.003	0.173	0.000	0.175	0.308	2.427	5.743
31	0.506	0.203	0.002	0.141	0.000	0.142	0.296	2.500	6.088
32	0.539	0.220	0.001	0.112	0.000	0.113	0.285	2.575	6.453
33	0.575	0.238	0.000	0.088	0.000	0.088	0.274	2.652	6.841
34	0.616	0.257	0.000	0.067	0.000	0.067	0.264	2.732	7.251
35	0.661	0.276	0.000	0.050	0.000	0.050	0.253	2.814	7.686
36	0.713	0.297	0.000	0.036	0.000	0.036	0.244	2.898	8.147
37	0.773	0.317	0.000	0.025	0.000	0.025	0.234	2.985	8.636
38	0.841	0.339	0.000	0.017	0.000	0.017	0.225	3.075	9.154
39	0.918	0.361	0.000	0.011	0.000	0.011	0.217	3.167	9.704
40	1.000	0.384	0.000	0.007	0.000	0.007	0.208	3.262	10.286
41	-	0.405	-	0.004	-	0.004	0.200	3.360	10.903
42	-	0.425	-	0.003	-	0.003	0.193	3.461	11.557
43	-	0.444	-	0.002	-	0.002	0.185	3.565	12.250
44	-	0.464	-	0.001	-	0.001	0.178	3.671	12.985
45	-	0.482	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.495	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	1.000	-	0.000	-	0.000	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	15		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	9/13/2002		
(15)	**DATE OF FILING**	9/26/2002		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	54	M	
(17)	**CLAIMANT 2 (y)**	50	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	28.72	17.71
(19)	APV FOR CLAIMANT 2	66.03	29.72
(20)	APV FOR BOTH CLAIMANTS ALIVE	26.49	16.81
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	41.77	13.82
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	611,846	292,949
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	44.240	24.938
(29)	APV OF MEDICAL BENEFIT	265,441	149,631

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.013	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.014	0.002	0.987	0.999	0.986	0.014	0.962	1.030	1.060
2	0.015	0.002	0.973	0.997	0.970	0.030	0.925	1.061	1.124
3	0.017	0.002	0.958	0.995	0.954	0.046	0.889	1.093	1.191
4	0.018	0.002	0.942	0.993	0.936	0.064	0.855	1.126	1.262
5	0.020	0.002	0.925	0.991	0.917	0.082	0.822	1.159	1.338
6	0.022	0.003	0.906	0.989	0.896	0.103	0.790	1.194	1.419
7	0.024	0.003	0.886	0.987	0.874	0.124	0.760	1.230	1.504
8	0.027	0.003	0.865	0.984	0.851	0.147	0.731	1.267	1.594
9	0.030	0.004	0.842	0.980	0.825	0.171	0.703	1.305	1.689
10	0.033	0.004	0.817	0.977	0.798	0.198	0.676	1.344	1.791
11	0.037	0.005	0.790	0.972	0.768	0.226	0.650	1.384	1.898
12	0.041	0.006	0.761	0.967	0.736	0.256	0.625	1.426	2.012
13	0.046	0.007	0.730	0.962	0.702	0.288	0.601	1.469	2.133
14	0.050	0.008	0.697	0.955	0.666	0.321	0.577	1.513	2.261
15	0.055	0.009	0.662	0.948	0.627	0.355	0.555	1.558	2.397
16	0.059	0.010	0.626	0.940	0.588	0.390	0.534	1.605	2.540
17	0.064	0.011	0.588	0.931	0.548	0.424	0.513	1.653	2.693
18	0.069	0.012	0.551	0.921	0.507	0.457	0.494	1.702	2.854
19	0.074	0.013	0.513	0.910	0.467	0.489	0.475	1.754	3.026
20	0.080	0.014	0.475	0.898	0.427	0.520	0.456	1.806	3.207
21	0.086	0.015	0.437	0.886	0.387	0.548	0.439	1.860	3.400
22	0.094	0.017	0.400	0.873	0.349	0.575	0.422	1.916	3.604
23	0.102	0.018	0.362	0.858	0.311	0.599	0.406	1.974	3.820
24	0.111	0.020	0.325	0.842	0.274	0.620	0.390	2.033	4.049
25	0.121	0.023	0.289	0.825	0.238	0.637	0.375	2.094	4.292
26	0.131	0.025	0.254	0.807	0.205	0.651	0.361	2.157	4.549
27	0.141	0.028	0.221	0.786	0.174	0.660	0.347	2.221	4.822
28	0.151	0.032	0.190	0.764	0.145	0.664	0.333	2.288	5.112
29	0.162	0.035	0.161	0.740	0.119	0.662	0.321	2.357	5.418
30	0.173	0.039	0.135	0.713	0.096	0.656	0.308	2.427	5.743
31	0.186	0.044	0.112	0.685	0.076	0.644	0.296	2.500	6.088
32	0.201	0.049	0.091	0.655	0.059	0.627	0.285	2.575	6.453
33	0.218	0.055	0.072	0.623	0.045	0.605	0.274	2.652	6.841
34	0.237	0.061	0.057	0.589	0.033	0.579	0.264	2.732	7.251
35	0.258	0.068	0.043	0.553	0.024	0.548	0.253	2.814	7.686
36	0.282	0.075	0.032	0.515	0.017	0.514	0.244	2.898	8.147
37	0.309	0.084	0.023	0.477	0.011	0.478	0.234	2.985	8.636
38	0.339	0.094	0.016	0.437	0.007	0.439	0.225	3.075	9.154
39	0.371	0.105	0.011	0.396	0.004	0.398	0.217	3.167	9.704
40	0.406	0.116	0.007	0.354	0.002	0.356	0.208	3.262	10.286
41	0.444	0.129	0.004	0.313	0.001	0.315	0.200	3.360	10.903
42	0.475	0.142	0.002	0.273	0.001	0.274	0.193	3.461	11.557
43	0.506	0.156	0.001	0.234	0.000	0.235	0.185	3.565	12.250
44	0.539	0.171	0.001	0.198	0.000	0.198	0.178	3.671	12.985
45	0.575	0.186	0.000	0.164	0.000	0.164	0.171	3.782	13.765
46	0.616	0.203	0.000	0.133	0.000	0.133	0.165	3.895	14.590
47	0.661	0.220	0.000	0.106	0.000	0.106	0.158	4.012	15.466
48	0.713	0.238	0.000	0.083	0.000	0.083	0.152	4.132	16.394
49	0.773	0.257	0.000	0.063	0.000	0.063	0.146	4.256	17.378
50	0.841	0.276	0.000	0.047	0.000	0.047	0.141	4.384	18.420
51	0.918	0.297	0.000	0.034	0.000	0.034	0.135	4.515	19.525
52	1.000	0.317	0.000	0.024	0.000	0.024	0.130	4.651	20.697
53	-	0.339	-	0.016	-	0.016	0.125	4.790	21.939
54	-	0.361	-	0.011	-	0.011	0.120	4.934	23.255
55	-	0.384	-	0.007	-	0.007	0.116	5.082	24.650
56	-	0.405	-	0.004	-	0.004	0.111	5.235	26.129
57	-	0.425	-	0.003	-	0.003	0.107	5.392	27.697
58	-	0.444	-	0.001	-	0.001	0.103	5.553	29.359
59	-	0.464	-	0.001	-	0.001	0.099	5.720	31.120
60	-	0.482	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.495	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	0.500	-	0.000	-	0.000	0.069	7.463	52.577
69	-	0.500	-	0.000	-	0.000	0.067	7.687	55.732
70	-	1.000	-	0.000	-	0.000	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	16	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	1/24/2003	
(15)	**DATE OF FILING**	2/10/2003	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	60	M
(17)	**CLAIMANT 2 (y)**	61	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	20.78	14.10
(19)	APV FOR CLAIMANT 2	39.65	22.12
(20)	APV FOR BOTH CLAIMANTS ALIVE	17.85	12.64
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	24.73	10.93
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	386,634	224,392
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	29.191	18.573
(29)	APV OF MEDICAL BENEFIT	175,149	111,440

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.022	0.005	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.024	0.006	0.978	0.995	0.973	0.027	0.962	1.030	1.060
2	0.027	0.007	0.954	0.989	0.944	0.056	0.925	1.061	1.124
3	0.030	0.008	0.929	0.983	0.913	0.086	0.889	1.093	1.191
4	0.033	0.009	0.901	0.975	0.879	0.119	0.855	1.126	1.262
5	0.037	0.010	0.872	0.967	0.843	0.153	0.822	1.159	1.338
6	0.041	0.011	0.840	0.957	0.804	0.189	0.790	1.194	1.419
7	0.046	0.012	0.805	0.947	0.763	0.227	0.760	1.230	1.504
8	0.050	0.013	0.769	0.936	0.719	0.266	0.731	1.267	1.594
9	0.055	0.014	0.730	0.924	0.675	0.305	0.703	1.305	1.689
10	0.059	0.015	0.690	0.911	0.629	0.344	0.676	1.344	1.791
11	0.064	0.017	0.649	0.898	0.583	0.381	0.650	1.384	1.898
12	0.069	0.018	0.608	0.883	0.536	0.418	0.625	1.426	2.012
13	0.074	0.020	0.566	0.867	0.490	0.452	0.601	1.469	2.133
14	0.080	0.023	0.524	0.849	0.445	0.483	0.577	1.513	2.261
15	0.086	0.025	0.482	0.830	0.400	0.512	0.555	1.558	2.397
16	0.094	0.028	0.441	0.809	0.356	0.537	0.534	1.605	2.540
17	0.102	0.032	0.399	0.786	0.314	0.557	0.513	1.653	2.693
18	0.111	0.035	0.359	0.761	0.273	0.574	0.494	1.702	2.854
19	0.121	0.039	0.319	0.734	0.234	0.585	0.475	1.754	3.026
20	0.131	0.044	0.280	0.705	0.198	0.590	0.456	1.806	3.207
21	0.141	0.049	0.244	0.674	0.164	0.589	0.439	1.860	3.400
22	0.151	0.055	0.209	0.641	0.134	0.582	0.422	1.916	3.604
23	0.162	0.061	0.178	0.606	0.108	0.568	0.406	1.974	3.820
24	0.173	0.068	0.149	0.569	0.085	0.548	0.390	2.033	4.049
25	0.186	0.075	0.123	0.530	0.065	0.523	0.375	2.094	4.292
26	0.201	0.084	0.100	0.490	0.049	0.492	0.361	2.157	4.549
27	0.218	0.094	0.080	0.449	0.036	0.457	0.347	2.221	4.822
28	0.237	0.105	0.063	0.407	0.025	0.419	0.333	2.288	5.112
29	0.258	0.116	0.048	0.364	0.017	0.377	0.321	2.357	5.418
30	0.282	0.129	0.035	0.322	0.011	0.335	0.308	2.427	5.743
31	0.309	0.142	0.025	0.281	0.007	0.292	0.296	2.500	6.088
32	0.339	0.156	0.018	0.241	0.004	0.250	0.285	2.575	6.453
33	0.371	0.171	0.012	0.203	0.002	0.210	0.274	2.652	6.841
34	0.406	0.186	0.007	0.169	0.001	0.173	0.264	2.732	7.251
35	0.444	0.203	0.004	0.137	0.001	0.140	0.253	2.814	7.686
36	0.475	0.220	0.002	0.109	0.000	0.111	0.244	2.898	8.147
37	0.506	0.238	0.001	0.085	0.000	0.086	0.234	2.985	8.636
38	0.539	0.257	0.001	0.065	0.000	0.066	0.225	3.075	9.154
39	0.575	0.276	0.000	0.048	0.000	0.049	0.217	3.167	9.704
40	0.616	0.297	0.000	0.035	0.000	0.035	0.208	3.262	10.286
41	0.661	0.317	0.000	0.025	0.000	0.025	0.200	3.360	10.903
42	0.713	0.339	0.000	0.017	0.000	0.017	0.193	3.461	11.557
43	0.773	0.361	0.000	0.011	0.000	0.011	0.185	3.565	12.250
44	0.841	0.384	0.000	0.007	0.000	0.007	0.178	3.671	12.985
45	0.918	0.405	0.000	0.004	0.000	0.004	0.171	3.782	13.765
46	1.000	0.425	0.000	0.003	0.000	0.003	0.165	3.895	14.590
47	-	0.444	-	0.001	-	0.001	0.158	4.012	15.466
48	-	0.464	-	0.001	-	0.001	0.152	4.132	16.394
49	-	0.482	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.495	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	1.000	-	0.000	-	0.000	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
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116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	17	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	2/26/2003	
(15)	**DATE OF FILING**	3/3/2003	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	71	M
(17)	**CLAIMANT 2 (y)**	52	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.98	8.63
(19)	APV FOR CLAIMANT 2	60.51	28.36
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.73	8.48
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	50.04	20.03
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	496,448	245,860
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	13.450	10.258
(29)	APV OF MEDICAL BENEFIT	80,703	61,548

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.064	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.069	0.002	0.936	0.998	0.934	0.065	0.962	1.030	1.060
2	0.074	0.002	0.872	0.996	0.869	0.131	0.925	1.061	1.124
3	0.080	0.002	0.807	0.994	0.803	0.196	0.889	1.093	1.191
4	0.086	0.003	0.743	0.992	0.737	0.261	0.855	1.126	1.262
5	0.094	0.003	0.679	0.989	0.672	0.325	0.822	1.159	1.338
6	0.102	0.003	0.615	0.987	0.607	0.388	0.790	1.194	1.419
7	0.111	0.004	0.553	0.983	0.543	0.449	0.760	1.230	1.504
8	0.121	0.004	0.491	0.979	0.481	0.509	0.731	1.267	1.594
9	0.131	0.005	0.432	0.975	0.421	0.565	0.703	1.305	1.689
10	0.141	0.006	0.375	0.970	0.364	0.617	0.676	1.344	1.791
11	0.151	0.007	0.322	0.964	0.311	0.665	0.650	1.384	1.898
12	0.162	0.008	0.274	0.958	0.262	0.707	0.625	1.426	2.012
13	0.173	0.009	0.229	0.951	0.218	0.744	0.601	1.469	2.133
14	0.186	0.010	0.190	0.943	0.179	0.775	0.577	1.513	2.261
15	0.201	0.011	0.154	0.933	0.144	0.800	0.555	1.558	2.397
16	0.218	0.012	0.123	0.923	0.114	0.819	0.534	1.605	2.540
17	0.237	0.013	0.096	0.912	0.088	0.833	0.513	1.653	2.693
18	0.258	0.014	0.074	0.901	0.066	0.842	0.494	1.702	2.854
19	0.282	0.015	0.055	0.889	0.048	0.846	0.475	1.754	3.026
20	0.309	0.017	0.039	0.875	0.034	0.846	0.456	1.806	3.207
21	0.339	0.018	0.027	0.861	0.023	0.841	0.439	1.860	3.400
22	0.371	0.020	0.018	0.845	0.015	0.833	0.422	1.916	3.604
23	0.406	0.023	0.011	0.828	0.009	0.820	0.406	1.974	3.820
24	0.444	0.025	0.007	0.809	0.005	0.805	0.390	2.033	4.049
25	0.475	0.028	0.004	0.789	0.003	0.786	0.375	2.094	4.292
26	0.506	0.032	0.002	0.766	0.001	0.765	0.361	2.157	4.549
27	0.539	0.035	0.001	0.742	0.001	0.741	0.347	2.221	4.822
28	0.575	0.039	0.000	0.716	0.000	0.715	0.333	2.288	5.112
29	0.616	0.044	0.000	0.687	0.000	0.687	0.321	2.357	5.418
30	0.661	0.049	0.000	0.657	0.000	0.657	0.308	2.427	5.743
31	0.713	0.055	0.000	0.625	0.000	0.625	0.296	2.500	6.088
32	0.773	0.061	0.000	0.591	0.000	0.591	0.285	2.575	6.453
33	0.841	0.068	0.000	0.555	0.000	0.555	0.274	2.652	6.841
34	0.918	0.075	0.000	0.517	0.000	0.517	0.264	2.732	7.251
35	1.000	0.084	0.000	0.478	0.000	0.478	0.253	2.814	7.686
36	-	0.094	-	0.438	-	0.438	0.244	2.898	8.147
37	-	0.105	-	0.397	-	0.397	0.234	2.985	8.636
38	-	0.116	-	0.355	-	0.355	0.225	3.075	9.154
39	-	0.129	-	0.314	-	0.314	0.217	3.167	9.704
40	-	0.142	-	0.274	-	0.274	0.208	3.262	10.286
41	-	0.156	-	0.235	-	0.235	0.200	3.360	10.903
42	-	0.171	-	0.198	-	0.198	0.193	3.461	11.557
43	-	0.186	-	0.164	-	0.164	0.185	3.565	12.250
44	-	0.203	-	0.134	-	0.134	0.178	3.671	12.985
45	-	0.220	-	0.107	-	0.107	0.171	3.782	13.765
46	-	0.238	-	0.083	-	0.083	0.165	3.895	14.590
47	-	0.257	-	0.063	-	0.063	0.158	4.012	15.466
48	-	0.276	-	0.047	-	0.047	0.152	4.132	16.394
49	-	0.297	-	0.034	-	0.034	0.146	4.256	17.378
50	-	0.317	-	0.024	-	0.024	0.141	4.384	18.420
51	-	0.339	-	0.016	-	0.016	0.135	4.515	19.525
52	-	0.361	-	0.011	-	0.011	0.130	4.651	20.697
53	-	0.384	-	0.007	-	0.007	0.125	4.790	21.939
54	-	0.405	-	0.004	-	0.004	0.120	4.934	23.255
55	-	0.425	-	0.003	-	0.003	0.116	5.082	24.650
56	-	0.444	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.464	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.482	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.495	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	1.000	-	0.000	-	0.000	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	18		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	11/14/2003		
(15)	**DATE OF FILING**	11/17/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	66	M	
(17)	**CLAIMANT 2 (y)**	59	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	14.68	10.84
(19)	APV FOR CLAIMANT 2	43.74	23.50
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.57	10.22
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	31.28	13.91
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	387,620	219,449
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	19.031	13.457
(29)	APV OF MEDICAL BENEFIT	114,183	80,740

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.041	0.004	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.046	0.004	0.959	0.996	0.955	0.045	0.962	1.030	1.060
2	0.050	0.005	0.915	0.992	0.908	0.091	0.925	1.061	1.124
3	0.055	0.006	0.869	0.987	0.858	0.140	0.889	1.093	1.191
4	0.059	0.007	0.822	0.981	0.806	0.191	0.855	1.126	1.262
5	0.064	0.008	0.773	0.974	0.753	0.241	0.822	1.159	1.338
6	0.069	0.009	0.723	0.967	0.700	0.291	0.790	1.194	1.419
7	0.074	0.010	0.674	0.959	0.646	0.341	0.760	1.230	1.504
8	0.080	0.011	0.624	0.949	0.592	0.389	0.731	1.267	1.594
9	0.086	0.012	0.574	0.939	0.539	0.435	0.703	1.305	1.689
10	0.094	0.013	0.525	0.928	0.487	0.479	0.676	1.344	1.791
11	0.102	0.014	0.476	0.916	0.436	0.520	0.650	1.384	1.898
12	0.111	0.015	0.427	0.904	0.386	0.559	0.625	1.426	2.012
13	0.121	0.017	0.380	0.890	0.338	0.594	0.601	1.469	2.133
14	0.131	0.018	0.334	0.875	0.292	0.625	0.577	1.513	2.261
15	0.141	0.020	0.290	0.859	0.249	0.651	0.555	1.558	2.397
16	0.151	0.023	0.249	0.842	0.210	0.672	0.534	1.605	2.540
17	0.162	0.025	0.212	0.823	0.174	0.686	0.513	1.653	2.693
18	0.173	0.028	0.177	0.802	0.142	0.695	0.494	1.702	2.854
19	0.186	0.032	0.147	0.779	0.114	0.697	0.475	1.754	3.026
20	0.201	0.035	0.119	0.754	0.090	0.694	0.456	1.806	3.207
21	0.218	0.039	0.095	0.728	0.069	0.684	0.439	1.860	3.400
22	0.237	0.044	0.074	0.699	0.052	0.669	0.422	1.916	3.604
23	0.258	0.049	0.057	0.668	0.038	0.649	0.406	1.974	3.820
24	0.282	0.055	0.042	0.636	0.027	0.624	0.390	2.033	4.049
25	0.309	0.061	0.030	0.601	0.018	0.595	0.375	2.094	4.292
26	0.339	0.068	0.021	0.564	0.012	0.561	0.361	2.157	4.549
27	0.371	0.075	0.014	0.526	0.007	0.525	0.347	2.221	4.822
28	0.406	0.084	0.009	0.486	0.004	0.486	0.333	2.288	5.112
29	0.444	0.094	0.005	0.445	0.002	0.446	0.321	2.357	5.418
30	0.475	0.105	0.003	0.404	0.001	0.404	0.308	2.427	5.743
31	0.506	0.116	0.002	0.361	0.001	0.362	0.296	2.500	6.088
32	0.539	0.129	0.001	0.319	0.000	0.320	0.285	2.575	6.453
33	0.575	0.142	0.000	0.278	0.000	0.278	0.274	2.652	6.841
34	0.616	0.156	0.000	0.239	0.000	0.239	0.264	2.732	7.251
35	0.661	0.171	0.000	0.202	0.000	0.202	0.253	2.814	7.686
36	0.713	0.186	0.000	0.167	0.000	0.167	0.244	2.898	8.147
37	0.773	0.203	0.000	0.136	0.000	0.136	0.234	2.985	8.636
38	0.841	0.220	0.000	0.108	0.000	0.108	0.225	3.075	9.154
39	0.918	0.238	0.000	0.085	0.000	0.085	0.217	3.167	9.704
40	1.000	0.257	0.000	0.065	0.000	0.065	0.208	3.262	10.286
41	-	0.276	-	0.048	-	0.048	0.200	3.360	10.903
42	-	0.297	-	0.035	-	0.035	0.193	3.461	11.557
43	-	0.317	-	0.024	-	0.024	0.185	3.565	12.250
44	-	0.339	-	0.017	-	0.017	0.178	3.671	12.985
45	-	0.361	-	0.011	-	0.011	0.171	3.782	13.765
46	-	0.384	-	0.007	-	0.007	0.165	3.895	14.590
47	-	0.405	-	0.004	-	0.004	0.158	4.012	15.466
48	-	0.425	-	0.003	-	0.003	0.152	4.132	16.394
49	-	0.444	-	0.001	-	0.001	0.146	4.256	17.378
50	-	0.464	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.482	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.495	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	1.000	-	0.000	-	0.000	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
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84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	19		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	12/8/2003		
(15)	**DATE OF FILING**	12/9/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	62	M	
(17)	**CLAIMANT 2 (y)**	58	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		18.54	12.96
(19)	APV FOR CLAIMANT 2		45.91	24.20
(20)	APV FOR BOTH CLAIMANTS ALIVE		16.83	12.08
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		30.78	12.99
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		420,597	233,557
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		25.322	16.719
(29)	APV OF MEDICAL BENEFIT		151,934	100,315

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.027	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.030	0.004	0.973	0.997	0.970	0.030	0.962	1.030	1.060
2	0.033	0.004	0.945	0.993	0.938	0.062	0.925	1.061	1.124
3	0.037	0.005	0.913	0.988	0.903	0.096	0.889	1.093	1.191
4	0.041	0.006	0.880	0.983	0.865	0.133	0.855	1.126	1.262
5	0.046	0.007	0.844	0.978	0.825	0.171	0.822	1.159	1.338
6	0.050	0.008	0.805	0.971	0.782	0.212	0.790	1.194	1.419
7	0.055	0.009	0.765	0.964	0.737	0.254	0.760	1.230	1.504
8	0.059	0.010	0.723	0.955	0.691	0.297	0.731	1.267	1.594
9	0.064	0.011	0.680	0.946	0.643	0.339	0.703	1.305	1.689
10	0.069	0.012	0.637	0.936	0.596	0.381	0.676	1.344	1.791
11	0.074	0.013	0.593	0.925	0.548	0.421	0.650	1.384	1.898
12	0.080	0.014	0.549	0.913	0.501	0.459	0.625	1.426	2.012
13	0.086	0.015	0.505	0.901	0.455	0.496	0.601	1.469	2.133
14	0.094	0.017	0.462	0.887	0.410	0.530	0.577	1.513	2.261
15	0.102	0.018	0.419	0.873	0.365	0.561	0.555	1.558	2.397
16	0.111	0.020	0.376	0.857	0.322	0.589	0.534	1.605	2.540
17	0.121	0.023	0.334	0.839	0.280	0.613	0.513	1.653	2.693
18	0.131	0.025	0.294	0.820	0.241	0.632	0.494	1.702	2.854
19	0.141	0.028	0.255	0.799	0.204	0.647	0.475	1.754	3.026
20	0.151	0.032	0.219	0.777	0.170	0.655	0.456	1.806	3.207
21	0.162	0.035	0.186	0.752	0.140	0.658	0.439	1.860	3.400
22	0.173	0.039	0.156	0.725	0.113	0.655	0.422	1.916	3.604
23	0.186	0.044	0.129	0.697	0.090	0.646	0.406	1.974	3.820
24	0.201	0.049	0.105	0.666	0.070	0.631	0.390	2.033	4.049
25	0.218	0.055	0.084	0.633	0.053	0.611	0.375	2.094	4.292
26	0.237	0.061	0.066	0.599	0.039	0.586	0.361	2.157	4.549
27	0.258	0.068	0.050	0.562	0.028	0.556	0.347	2.221	4.822
28	0.282	0.075	0.037	0.524	0.019	0.522	0.333	2.288	5.112
29	0.309	0.084	0.027	0.485	0.013	0.485	0.321	2.357	5.418
30	0.339	0.094	0.018	0.444	0.008	0.446	0.308	2.427	5.743
31	0.371	0.105	0.012	0.402	0.005	0.405	0.296	2.500	6.088
32	0.406	0.116	0.008	0.360	0.003	0.362	0.285	2.575	6.453
33	0.444	0.129	0.005	0.318	0.001	0.320	0.274	2.652	6.841
34	0.475	0.142	0.003	0.277	0.001	0.278	0.264	2.732	7.251
35	0.506	0.156	0.001	0.238	0.000	0.239	0.253	2.814	7.686
36	0.539	0.171	0.001	0.201	0.000	0.201	0.244	2.898	8.147
37	0.575	0.186	0.000	0.167	0.000	0.167	0.234	2.985	8.636
38	0.616	0.203	0.000	0.136	0.000	0.136	0.225	3.075	9.154
39	0.661	0.220	0.000	0.108	0.000	0.108	0.217	3.167	9.704
40	0.713	0.238	0.000	0.084	0.000	0.084	0.208	3.262	10.286
41	0.773	0.257	0.000	0.064	0.000	0.064	0.200	3.360	10.903
42	0.841	0.276	0.000	0.048	0.000	0.048	0.193	3.461	11.557
43	0.918	0.297	0.000	0.035	0.000	0.035	0.185	3.565	12.250
44	1.000	0.317	0.000	0.024	0.000	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	1.000	-	0.000	-	0.000	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	20		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	10/20/2005		
(15)	**DATE OF FILING**	10/21/2005		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	63	M	
(17)	**CLAIMANT 2 (y)**	65	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		17.49	12.40
(19)	APV FOR CLAIMANT 2		32.35	19.41
(20)	APV FOR BOTH CLAIMANTS ALIVE		14.66	10.88
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		20.53	10.06
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		319,175	197,991
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		23.574	15.845
(29)	APV OF MEDICAL BENEFIT		141,446	95,071

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.030	0.009	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.033	0.010	0.970	0.991	0.962	0.038	0.962	1.030	1.060
2	0.037	0.011	0.939	0.982	0.921	0.077	0.925	1.061	1.124
3	0.041	0.012	0.904	0.971	0.878	0.119	0.889	1.093	1.191
4	0.046	0.013	0.867	0.960	0.832	0.163	0.855	1.126	1.262
5	0.050	0.014	0.828	0.948	0.784	0.207	0.822	1.159	1.338
6	0.055	0.015	0.786	0.935	0.735	0.251	0.790	1.194	1.419
7	0.059	0.017	0.743	0.921	0.684	0.296	0.760	1.230	1.504
8	0.064	0.018	0.699	0.905	0.633	0.339	0.731	1.267	1.594
9	0.069	0.020	0.654	0.889	0.581	0.380	0.703	1.305	1.689
10	0.074	0.023	0.609	0.871	0.530	0.419	0.676	1.344	1.791
11	0.080	0.025	0.564	0.851	0.480	0.455	0.650	1.384	1.898
12	0.086	0.028	0.519	0.829	0.431	0.487	0.625	1.426	2.012
13	0.094	0.032	0.475	0.806	0.382	0.516	0.601	1.469	2.133
14	0.102	0.035	0.430	0.780	0.336	0.539	0.577	1.513	2.261
15	0.111	0.039	0.386	0.753	0.291	0.558	0.555	1.558	2.397
16	0.121	0.044	0.343	0.723	0.248	0.570	0.534	1.605	2.540
17	0.131	0.049	0.302	0.691	0.208	0.576	0.513	1.653	2.693
18	0.141	0.055	0.262	0.657	0.172	0.575	0.494	1.702	2.854
19	0.151	0.061	0.225	0.621	0.140	0.567	0.475	1.754	3.026
20	0.162	0.068	0.191	0.583	0.112	0.551	0.456	1.806	3.207
21	0.173	0.075	0.160	0.544	0.087	0.530	0.439	1.860	3.400
22	0.186	0.084	0.132	0.503	0.067	0.502	0.422	1.916	3.604
23	0.201	0.094	0.108	0.461	0.050	0.469	0.406	1.974	3.820
24	0.218	0.105	0.086	0.417	0.036	0.432	0.390	2.033	4.049
25	0.237	0.116	0.067	0.374	0.025	0.391	0.375	2.094	4.292
26	0.258	0.129	0.051	0.330	0.017	0.348	0.361	2.157	4.549
27	0.282	0.142	0.038	0.288	0.011	0.304	0.347	2.221	4.822
28	0.309	0.156	0.027	0.247	0.007	0.261	0.333	2.288	5.112
29	0.339	0.171	0.019	0.208	0.004	0.219	0.321	2.357	5.418
30	0.371	0.186	0.012	0.173	0.002	0.181	0.308	2.427	5.743
31	0.406	0.203	0.008	0.141	0.001	0.146	0.296	2.500	6.088
32	0.444	0.220	0.005	0.112	0.001	0.116	0.285	2.575	6.453
33	0.475	0.238	0.003	0.088	0.000	0.090	0.274	2.652	6.841
34	0.506	0.257	0.001	0.067	0.000	0.068	0.264	2.732	7.251
35	0.539	0.276	0.001	0.050	0.000	0.050	0.253	2.814	7.686
36	0.575	0.297	0.000	0.036	0.000	0.036	0.244	2.898	8.147
37	0.616	0.317	0.000	0.025	0.000	0.025	0.234	2.985	8.636
38	0.661	0.339	0.000	0.017	0.000	0.017	0.225	3.075	9.154
39	0.713	0.361	0.000	0.011	0.000	0.011	0.217	3.167	9.704
40	0.773	0.384	0.000	0.007	0.000	0.007	0.208	3.262	10.286
41	0.841	0.405	0.000	0.004	0.000	0.004	0.200	3.360	10.903
42	0.918	0.425	0.000	0.003	0.000	0.003	0.193	3.461	11.557
43	1.000	0.444	0.000	0.002	0.000	0.002	0.185	3.565	12.250
44	-	0.464	-	0.001	-	0.001	0.178	3.671	12.985
45	-	0.482	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.495	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	1.000	-	0.000	-	0.000	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	21		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	8/22/2006		
(15)	**DATE OF FILING**	8/30/2006		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	64	M	
(17)	**CLAIMANT 2 (y)**	61	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		16.50	11.86
(19)	APV FOR CLAIMANT 2		39.65	22.12
(20)	APV FOR BOTH CLAIMANTS ALIVE		14.75	10.91
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		26.66	12.16
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		366,177	214,137
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		21.945	15.009
(29)	APV OF MEDICAL BENEFIT		131,670	90,052

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.033	0.005	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.037	0.006	0.967	0.995	0.962	0.038	0.962	1.030	1.060
2	0.041	0.007	0.932	0.989	0.921	0.078	0.925	1.061	1.124
3	0.046	0.008	0.893	0.983	0.878	0.120	0.889	1.093	1.191
4	0.050	0.009	0.853	0.975	0.831	0.165	0.855	1.126	1.262
5	0.055	0.010	0.810	0.967	0.783	0.211	0.822	1.159	1.338
6	0.059	0.011	0.766	0.957	0.733	0.257	0.790	1.194	1.419
7	0.064	0.012	0.720	0.947	0.682	0.303	0.760	1.230	1.504
8	0.069	0.013	0.674	0.936	0.631	0.348	0.731	1.267	1.594
9	0.074	0.014	0.628	0.924	0.580	0.392	0.703	1.305	1.689
10	0.080	0.015	0.581	0.911	0.530	0.433	0.676	1.344	1.791
11	0.086	0.017	0.535	0.898	0.480	0.472	0.650	1.384	1.898
12	0.094	0.018	0.489	0.883	0.432	0.508	0.625	1.426	2.012
13	0.102	0.020	0.443	0.867	0.384	0.542	0.601	1.469	2.133
14	0.111	0.023	0.398	0.849	0.338	0.571	0.577	1.513	2.261
15	0.121	0.025	0.354	0.830	0.293	0.597	0.555	1.558	2.397
16	0.131	0.028	0.311	0.809	0.251	0.617	0.534	1.605	2.540
17	0.141	0.032	0.270	0.786	0.212	0.631	0.513	1.653	2.693
18	0.151	0.035	0.232	0.761	0.177	0.640	0.494	1.702	2.854
19	0.162	0.039	0.197	0.734	0.145	0.642	0.475	1.754	3.026
20	0.173	0.044	0.165	0.705	0.116	0.637	0.456	1.806	3.207
21	0.186	0.049	0.136	0.674	0.092	0.626	0.439	1.860	3.400
22	0.201	0.055	0.111	0.641	0.071	0.610	0.422	1.916	3.604
23	0.218	0.061	0.089	0.606	0.054	0.587	0.406	1.974	3.820
24	0.237	0.068	0.069	0.569	0.039	0.559	0.390	2.033	4.049
25	0.258	0.075	0.053	0.530	0.028	0.527	0.375	2.094	4.292
26	0.282	0.084	0.039	0.490	0.019	0.491	0.361	2.157	4.549
27	0.309	0.094	0.028	0.449	0.013	0.452	0.347	2.221	4.822
28	0.339	0.105	0.019	0.407	0.008	0.411	0.333	2.288	5.112
29	0.371	0.116	0.013	0.364	0.005	0.368	0.321	2.357	5.418
30	0.406	0.129	0.008	0.322	0.003	0.325	0.308	2.427	5.743
31	0.444	0.142	0.005	0.281	0.001	0.283	0.296	2.500	6.088
32	0.475	0.156	0.003	0.241	0.001	0.242	0.285	2.575	6.453
33	0.506	0.171	0.001	0.203	0.000	0.204	0.274	2.652	6.841
34	0.539	0.186	0.001	0.169	0.000	0.169	0.264	2.732	7.251
35	0.575	0.203	0.000	0.137	0.000	0.137	0.253	2.814	7.686
36	0.616	0.220	0.000	0.109	0.000	0.109	0.244	2.898	8.147
37	0.661	0.238	0.000	0.085	0.000	0.085	0.234	2.985	8.636
38	0.713	0.257	0.000	0.065	0.000	0.065	0.225	3.075	9.154
39	0.773	0.276	0.000	0.048	0.000	0.048	0.217	3.167	9.704
40	0.841	0.297	0.000	0.035	0.000	0.035	0.208	3.262	10.286
41	0.918	0.317	0.000	0.025	0.000	0.025	0.200	3.360	10.903
42	1.000	0.339	0.000	0.017	0.000	0.017	0.193	3.461	11.557
43	-	0.361	-	0.011	-	0.011	0.185	3.565	12.250
44	-	0.384	-	0.007	-	0.007	0.178	3.671	12.985
45	-	0.405	-	0.004	-	0.004	0.171	3.782	13.765
46	-	0.425	-	0.003	-	0.003	0.165	3.895	14.590
47	-	0.444	-	0.001	-	0.001	0.158	4.012	15.466
48	-	0.464	-	0.001	-	0.001	0.152	4.132	16.394
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52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	1.000	-	0.000	-	0.000	0.099	5.720	31.120
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(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	22		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/8/2007		
(15)	**DATE OF FILING**	5/11/2007		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	69	M	
(17)	**CLAIMANT 2 (y)**	67	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	12.33	9.47
(19)	APV FOR CLAIMANT 2	29.12	18.10
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.76	8.50
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	19.93	10.56
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	270,810	174,997
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	15.437	11.437
(29)	APV OF MEDICAL BENEFIT	92,622	68,619

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	0.011	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.059	0.012	0.945	0.989	0.935	0.064	0.962	1.030	1.060
2	0.064	0.013	0.889	0.978	0.869	0.128	0.925	1.061	1.124
3	0.069	0.014	0.832	0.965	0.803	0.191	0.889	1.093	1.191
4	0.074	0.015	0.775	0.952	0.738	0.251	0.855	1.126	1.262
5	0.080	0.017	0.718	0.938	0.673	0.309	0.822	1.159	1.338
6	0.086	0.018	0.661	0.922	0.609	0.364	0.790	1.194	1.419
7	0.094	0.020	0.604	0.905	0.547	0.416	0.760	1.230	1.504
8	0.102	0.023	0.547	0.887	0.485	0.464	0.731	1.267	1.594
9	0.111	0.025	0.491	0.867	0.426	0.506	0.703	1.305	1.689
10	0.121	0.028	0.437	0.845	0.369	0.544	0.676	1.344	1.791
11	0.131	0.032	0.384	0.821	0.315	0.575	0.650	1.384	1.898
12	0.141	0.035	0.334	0.795	0.265	0.598	0.625	1.426	2.012
13	0.151	0.039	0.287	0.767	0.220	0.614	0.601	1.469	2.133
14	0.162	0.044	0.243	0.736	0.179	0.621	0.577	1.513	2.261
15	0.173	0.049	0.204	0.704	0.144	0.621	0.555	1.558	2.397
16	0.186	0.055	0.169	0.669	0.113	0.612	0.534	1.605	2.540
17	0.201	0.061	0.137	0.633	0.087	0.596	0.513	1.653	2.693
18	0.218	0.068	0.110	0.594	0.065	0.574	0.494	1.702	2.854
19	0.237	0.075	0.086	0.554	0.047	0.545	0.475	1.754	3.026
20	0.258	0.084	0.065	0.512	0.033	0.511	0.456	1.806	3.207
21	0.282	0.094	0.048	0.469	0.023	0.472	0.439	1.860	3.400
22	0.309	0.105	0.035	0.425	0.015	0.430	0.422	1.916	3.604
23	0.339	0.116	0.024	0.381	0.009	0.386	0.406	1.974	3.820
24	0.371	0.129	0.016	0.336	0.005	0.342	0.390	2.033	4.049
25	0.406	0.142	0.010	0.293	0.003	0.297	0.375	2.094	4.292
26	0.444	0.156	0.006	0.251	0.001	0.254	0.361	2.157	4.549
27	0.475	0.171	0.003	0.212	0.001	0.214	0.347	2.221	4.822
28	0.506	0.186	0.002	0.176	0.000	0.177	0.333	2.288	5.112
29	0.539	0.203	0.001	0.143	0.000	0.144	0.321	2.357	5.418
30	0.575	0.220	0.000	0.114	0.000	0.115	0.308	2.427	5.743
31	0.616	0.238	0.000	0.089	0.000	0.089	0.296	2.500	6.088
32	0.661	0.257	0.000	0.068	0.000	0.068	0.285	2.575	6.453
33	0.713	0.276	0.000	0.051	0.000	0.051	0.274	2.652	6.841
34	0.773	0.297	0.000	0.037	0.000	0.037	0.264	2.732	7.251
35	0.841	0.317	0.000	0.026	0.000	0.026	0.253	2.814	7.686
36	0.918	0.339	0.000	0.018	0.000	0.018	0.244	2.898	8.147
37	1.000	0.361	0.000	0.012	0.000	0.012	0.234	2.985	8.636
38	-	0.384	-	0.007	-	0.007	0.225	3.075	9.154
39	-	0.405	-	0.005	-	0.005	0.217	3.167	9.704
40	-	0.425	-	0.003	-	0.003	0.208	3.262	10.286
41	-	0.444	-	0.002	-	0.002	0.200	3.360	10.903
42	-	0.464	-	0.001	-	0.001	0.193	3.461	11.557
43	-	0.482	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.495	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	1.000	-	0.000	-	0.000	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	23		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	10/30/2007		
(15)	**DATE OF FILING**	10/30/2007		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	72	M	
(17)	**CLAIMANT 2 (y)**	70	F	
		NOMINAL		**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1	10.36		8.24
(19)	APV FOR CLAIMANT 2	24.72		16.17
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.97		7.34
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	17.12		9.73
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260		11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507		7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	229,590		155,658
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60		625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20		7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000		6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	12.549		9.704
(29)	APV OF MEDICAL BENEFIT	75,291		58,225

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.014	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.015	0.931	0.986	0.919	0.081	0.962	1.030	1.060
2	0.080	0.017	0.863	0.972	0.838	0.158	0.925	1.061	1.124
3	0.086	0.018	0.794	0.955	0.759	0.232	0.889	1.093	1.191
4	0.094	0.020	0.726	0.938	0.681	0.302	0.855	1.126	1.262
5	0.102	0.023	0.658	0.919	0.604	0.368	0.822	1.159	1.338
6	0.111	0.025	0.590	0.898	0.530	0.428	0.790	1.194	1.419
7	0.121	0.028	0.525	0.875	0.459	0.482	0.760	1.230	1.504
8	0.131	0.032	0.461	0.850	0.392	0.527	0.731	1.267	1.594
9	0.141	0.035	0.401	0.823	0.330	0.564	0.703	1.305	1.689
10	0.151	0.039	0.344	0.794	0.274	0.592	0.676	1.344	1.791
11	0.162	0.044	0.292	0.763	0.223	0.609	0.650	1.384	1.898
12	0.173	0.049	0.245	0.729	0.179	0.617	0.625	1.426	2.012
13	0.186	0.055	0.203	0.694	0.140	0.615	0.601	1.469	2.133
14	0.201	0.061	0.165	0.656	0.108	0.604	0.577	1.513	2.261
15	0.218	0.068	0.132	0.616	0.081	0.585	0.555	1.558	2.397
16	0.237	0.075	0.103	0.574	0.059	0.559	0.534	1.605	2.540
17	0.258	0.084	0.079	0.531	0.042	0.526	0.513	1.653	2.693
18	0.282	0.094	0.058	0.486	0.028	0.488	0.494	1.702	2.854
19	0.309	0.105	0.042	0.440	0.018	0.445	0.475	1.754	3.026
20	0.339	0.116	0.029	0.394	0.011	0.401	0.456	1.806	3.207
21	0.371	0.129	0.019	0.349	0.007	0.354	0.439	1.860	3.400
22	0.406	0.142	0.012	0.304	0.004	0.308	0.422	1.916	3.604
23	0.444	0.156	0.007	0.261	0.002	0.264	0.406	1.974	3.820
24	0.475	0.171	0.004	0.220	0.001	0.222	0.390	2.033	4.049
25	0.506	0.186	0.002	0.182	0.000	0.184	0.375	2.094	4.292
26	0.539	0.203	0.001	0.148	0.000	0.149	0.361	2.157	4.549
27	0.575	0.220	0.000	0.118	0.000	0.119	0.347	2.221	4.822
28	0.616	0.238	0.000	0.092	0.000	0.093	0.333	2.288	5.112
29	0.661	0.257	0.000	0.070	0.000	0.070	0.321	2.357	5.418
30	0.713	0.276	0.000	0.052	0.000	0.052	0.308	2.427	5.743
31	0.773	0.297	0.000	0.038	0.000	0.038	0.296	2.500	6.088
32	0.841	0.317	0.000	0.027	0.000	0.027	0.285	2.575	6.453
33	0.918	0.339	0.000	0.018	0.000	0.018	0.274	2.652	6.841
34	1.000	0.361	0.000	0.012	0.000	0.012	0.264	2.732	7.251
35	-	0.384	-	0.008	-	0.008	0.253	2.814	7.686
36	-	0.405	-	0.005	-	0.005	0.244	2.898	8.147
37	-	0.425	-	0.003	-	0.003	0.234	2.985	8.636
38	-	0.444	-	0.002	-	0.002	0.225	3.075	9.154
39	-	0.464	-	0.001	-	0.001	0.217	3.167	9.704
40	-	0.482	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.495	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	1.000	-	0.000	-	0.000	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	24		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/1/2009		
(15)	**DATE OF FILING**	4/7/2009		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	74	M	
(17)	**CLAIMANT 2 (y)**	72	F	

		NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.17	7.46
(19)	APV FOR CLAIMANT 2	22.02	14.89
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.90	6.60
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	15.39	9.15
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	204,533	143,028
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.897	8.654
(29)	APV OF MEDICAL BENEFIT	65,379	51,924

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.080	0.017	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.086	0.018	0.920	0.983	0.905	0.093	0.962	1.030	1.060
2	0.094	0.020	0.841	0.965	0.812	0.182	0.925	1.061	1.124
3	0.102	0.023	0.762	0.946	0.721	0.266	0.889	1.093	1.191
4	0.111	0.025	0.684	0.924	0.633	0.344	0.855	1.126	1.262
5	0.121	0.028	0.608	0.901	0.548	0.413	0.822	1.159	1.338
6	0.131	0.032	0.535	0.875	0.468	0.474	0.790	1.194	1.419
7	0.141	0.035	0.465	0.848	0.394	0.525	0.760	1.230	1.504
8	0.151	0.039	0.399	0.818	0.326	0.564	0.731	1.267	1.594
9	0.162	0.044	0.339	0.785	0.266	0.592	0.703	1.305	1.689
10	0.173	0.049	0.284	0.751	0.213	0.608	0.676	1.344	1.791
11	0.186	0.055	0.235	0.714	0.168	0.614	0.650	1.384	1.898
12	0.201	0.061	0.191	0.675	0.129	0.608	0.625	1.426	2.012
13	0.218	0.068	0.153	0.634	0.097	0.593	0.601	1.469	2.133
14	0.237	0.075	0.119	0.591	0.071	0.569	0.577	1.513	2.261
15	0.258	0.084	0.091	0.546	0.050	0.538	0.555	1.558	2.397
16	0.282	0.094	0.068	0.500	0.034	0.500	0.534	1.605	2.540
17	0.309	0.105	0.048	0.453	0.022	0.458	0.513	1.653	2.693
18	0.339	0.116	0.033	0.406	0.014	0.412	0.494	1.702	2.854
19	0.371	0.129	0.022	0.359	0.008	0.365	0.475	1.754	3.026
20	0.406	0.142	0.014	0.313	0.004	0.318	0.456	1.806	3.207
21	0.444	0.156	0.008	0.268	0.002	0.272	0.439	1.860	3.400
22	0.475	0.171	0.005	0.226	0.001	0.229	0.422	1.916	3.604
23	0.506	0.186	0.002	0.188	0.000	0.189	0.406	1.974	3.820
24	0.539	0.203	0.001	0.153	0.000	0.154	0.390	2.033	4.049
25	0.575	0.220	0.001	0.122	0.000	0.122	0.375	2.094	4.292
26	0.616	0.238	0.000	0.095	0.000	0.095	0.361	2.157	4.549
27	0.661	0.257	0.000	0.072	0.000	0.073	0.347	2.221	4.822
28	0.713	0.276	0.000	0.054	0.000	0.054	0.333	2.288	5.112
29	0.773	0.297	0.000	0.039	0.000	0.039	0.321	2.357	5.418
30	0.841	0.317	0.000	0.027	0.000	0.027	0.308	2.427	5.743
31	0.918	0.339	0.000	0.019	0.000	0.019	0.296	2.500	6.088
32	1.000	0.361	0.000	0.012	0.000	0.012	0.285	2.575	6.453
33	-	0.384	-	0.008	-	0.008	0.274	2.652	6.841
34	-	0.405	-	0.005	-	0.005	0.264	2.732	7.251
35	-	0.425	-	0.003	-	0.003	0.253	2.814	7.686
36	-	0.444	-	0.002	-	0.002	0.244	2.898	8.147
37	-	0.464	-	0.001	-	0.001	0.234	2.985	8.636
38	-	0.482	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.495	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	1.000	-	0.000	-	0.000	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
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66	-	-	-	-	-	-	0.075	7.035	46.794
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72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
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87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
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94	-	-	-	-	-	-	0.025	16.095	239.195
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
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103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	25		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/9/2009		
(15)	**DATE OF FILING**	4/15/2009		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	70	M	
(17)	**CLAIMANT 2 (y)**	77	F	

		NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)	APV FOR CLAIMANT 2	16.19	11.84
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.46	7.00
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	10.91	6.89
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	177,181	130,498
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	86,461	65,003

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	0.028	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.064	0.032	0.941	0.972	0.914	0.084	0.962	1.030	1.060
2	0.069	0.035	0.880	0.941	0.828	0.165	0.925	1.061	1.124
3	0.074	0.039	0.820	0.908	0.744	0.239	0.889	1.093	1.191
4	0.080	0.044	0.759	0.872	0.662	0.307	0.855	1.126	1.262
5	0.086	0.049	0.699	0.833	0.583	0.367	0.822	1.159	1.338
6	0.094	0.055	0.639	0.793	0.506	0.419	0.790	1.194	1.419
7	0.102	0.061	0.579	0.749	0.434	0.461	0.760	1.230	1.504
8	0.111	0.068	0.520	0.703	0.366	0.492	0.731	1.267	1.594
9	0.121	0.075	0.462	0.656	0.303	0.512	0.703	1.305	1.689
10	0.131	0.084	0.406	0.606	0.246	0.520	0.676	1.344	1.791
11	0.141	0.094	0.353	0.555	0.196	0.516	0.650	1.384	1.898
12	0.151	0.105	0.303	0.503	0.153	0.501	0.625	1.426	2.012
13	0.162	0.116	0.257	0.451	0.116	0.476	0.601	1.469	2.133
14	0.173	0.129	0.216	0.398	0.086	0.442	0.577	1.513	2.261
15	0.186	0.142	0.178	0.347	0.062	0.402	0.555	1.558	2.397
16	0.201	0.156	0.145	0.298	0.043	0.356	0.534	1.605	2.540
17	0.218	0.171	0.116	0.251	0.029	0.309	0.513	1.653	2.693
18	0.237	0.186	0.091	0.208	0.019	0.261	0.494	1.702	2.854
19	0.258	0.203	0.069	0.170	0.012	0.215	0.475	1.754	3.026
20	0.282	0.220	0.051	0.135	0.007	0.173	0.456	1.806	3.207
21	0.309	0.238	0.037	0.106	0.004	0.135	0.439	1.860	3.400
22	0.339	0.257	0.025	0.080	0.002	0.102	0.422	1.916	3.604
23	0.371	0.276	0.017	0.060	0.001	0.075	0.406	1.974	3.820
24	0.406	0.297	0.011	0.043	0.000	0.053	0.390	2.033	4.049
25	0.444	0.317	0.006	0.030	0.000	0.036	0.375	2.094	4.292
26	0.475	0.339	0.003	0.021	0.000	0.024	0.361	2.157	4.549
27	0.506	0.361	0.002	0.014	0.000	0.016	0.347	2.221	4.822
28	0.539	0.384	0.001	0.009	0.000	0.010	0.333	2.288	5.112
29	0.575	0.405	0.000	0.005	0.000	0.006	0.321	2.357	5.418
30	0.616	0.425	0.000	0.003	0.000	0.003	0.308	2.427	5.743
31	0.661	0.444	0.000	0.002	0.000	0.002	0.296	2.500	6.088
32	0.713	0.464	0.000	0.001	0.000	0.001	0.285	2.575	6.453
33	0.773	0.482	0.000	0.001	0.000	0.001	0.274	2.652	6.841
34	0.841	0.495	0.000	0.000	0.000	0.000	0.264	2.732	7.251
35	0.918	0.500	0.000	0.000	0.000	0.000	0.253	2.814	7.686
36	1.000	0.500	0.000	0.000	0.000	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	1.000	-	0.000	-	0.000	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	26		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	12/28/2009		
(15)	**DATE OF FILING**	1/1/2010		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	64	M	
(17)	**CLAIMANT 2 (y)**	51	F	

		NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	16.50	11.86
(19)	APV FOR CLAIMANT 2	63.23	29.04
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.88	11.54
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	47.97	17.83
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	538,935	263,751
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	21.945	15.009
(29)	APV OF MEDICAL BENEFIT	131,670	90,052

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.033	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.037	0.002	0.967	0.998	0.966	0.034	0.962	1.030	1.060
2	0.041	0.002	0.932	0.997	0.929	0.071	0.925	1.061	1.124
3	0.046	0.002	0.893	0.995	0.889	0.111	0.889	1.093	1.191
4	0.050	0.002	0.853	0.993	0.847	0.152	0.855	1.126	1.262
5	0.055	0.003	0.810	0.990	0.802	0.196	0.822	1.159	1.338
6	0.059	0.003	0.766	0.988	0.756	0.241	0.790	1.194	1.419
7	0.064	0.003	0.720	0.985	0.709	0.287	0.760	1.230	1.504
8	0.069	0.004	0.674	0.982	0.662	0.332	0.731	1.267	1.594
9	0.074	0.004	0.628	0.978	0.614	0.378	0.703	1.305	1.689
10	0.080	0.005	0.581	0.974	0.566	0.423	0.676	1.344	1.791
11	0.086	0.006	0.535	0.969	0.518	0.467	0.650	1.384	1.898
12	0.094	0.007	0.489	0.963	0.471	0.510	0.625	1.426	2.012
13	0.102	0.008	0.443	0.957	0.424	0.552	0.601	1.469	2.133
14	0.111	0.009	0.398	0.949	0.378	0.592	0.577	1.513	2.261
15	0.121	0.010	0.354	0.941	0.333	0.629	0.555	1.558	2.397
16	0.131	0.011	0.311	0.932	0.290	0.663	0.534	1.605	2.540
17	0.141	0.012	0.270	0.922	0.249	0.694	0.513	1.653	2.693
18	0.151	0.013	0.232	0.911	0.211	0.720	0.494	1.702	2.854
19	0.162	0.014	0.197	0.899	0.177	0.742	0.475	1.754	3.026
20	0.173	0.015	0.165	0.887	0.147	0.759	0.456	1.806	3.207
21	0.186	0.017	0.136	0.874	0.119	0.772	0.439	1.860	3.400
22	0.201	0.018	0.111	0.859	0.095	0.780	0.422	1.916	3.604
23	0.218	0.020	0.089	0.844	0.075	0.783	0.406	1.974	3.820
24	0.237	0.023	0.069	0.826	0.057	0.781	0.390	2.033	4.049
25	0.258	0.025	0.053	0.808	0.043	0.775	0.375	2.094	4.292
26	0.282	0.028	0.039	0.787	0.031	0.765	0.361	2.157	4.549
27	0.309	0.032	0.028	0.765	0.022	0.750	0.347	2.221	4.822
28	0.339	0.035	0.019	0.741	0.014	0.731	0.333	2.288	5.112
29	0.371	0.039	0.013	0.714	0.009	0.709	0.321	2.357	5.418
30	0.406	0.044	0.008	0.686	0.006	0.683	0.308	2.427	5.743
31	0.444	0.049	0.005	0.656	0.003	0.655	0.296	2.500	6.088
32	0.475	0.055	0.003	0.624	0.002	0.623	0.285	2.575	6.453
33	0.506	0.061	0.001	0.590	0.001	0.589	0.274	2.652	6.841
34	0.539	0.068	0.001	0.554	0.000	0.554	0.264	2.732	7.251
35	0.575	0.075	0.000	0.516	0.000	0.516	0.253	2.814	7.686
36	0.616	0.084	0.000	0.477	0.000	0.477	0.244	2.898	8.147
37	0.661	0.094	0.000	0.437	0.000	0.437	0.234	2.985	8.636
38	0.713	0.105	0.000	0.396	0.000	0.396	0.225	3.075	9.154
39	0.773	0.116	0.000	0.355	0.000	0.355	0.217	3.167	9.704
40	0.841	0.129	0.000	0.314	0.000	0.314	0.208	3.262	10.286
41	0.918	0.142	0.000	0.273	0.000	0.273	0.200	3.360	10.903
42	1.000	0.156	0.000	0.234	0.000	0.234	0.193	3.461	11.557
43	-	0.171	-	0.198	-	0.198	0.185	3.565	12.250
44	-	0.186	-	0.164	-	0.164	0.178	3.671	12.985
45	-	0.203	-	0.134	-	0.134	0.171	3.782	13.765
46	-	0.220	-	0.106	-	0.106	0.165	3.895	14.590
47	-	0.238	-	0.083	-	0.083	0.158	4.012	15.466
48	-	0.257	-	0.063	-	0.063	0.152	4.132	16.394
49	-	0.276	-	0.047	-	0.047	0.146	4.256	17.378
50	-	0.297	-	0.034	-	0.034	0.141	4.384	18.420
51	-	0.317	-	0.024	-	0.024	0.135	4.515	19.525
52	-	0.339	-	0.016	-	0.016	0.130	4.651	20.697
53	-	0.361	-	0.011	-	0.011	0.125	4.790	21.939
54	-	0.384	-	0.007	-	0.007	0.120	4.934	23.255
55	-	0.405	-	0.004	-	0.004	0.116	5.082	24.650
56	-	0.425	-	0.003	-	0.003	0.111	5.235	26.129
57	-	0.444	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.464	-	0.001	-	0.001	0.103	5.553	29.359
59	-	0.482	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.495	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	0.500	-	0.000	-	0.000	0.069	7.463	52.577
69	-	1.000	-	0.000	-	0.000	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	27		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/1/1986		
(15)	**DATE OF FILING**	11/5/1996		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	71	M	
(17)	**CLAIMANT 2 (y)**	58	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.98	8.63
(19)	APV FOR CLAIMANT 2	45.91	24.20
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.48	8.32
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	35.93	16.19
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	387,726	215,227
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	13.450	10.258
(29)	APV OF MEDICAL BENEFIT	80,703	61,548

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.064	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.069	0.004	0.936	0.997	0.933	0.067	0.962	1.030	1.060
2	0.074	0.004	0.872	0.993	0.865	0.134	0.925	1.061	1.124
3	0.080	0.005	0.807	0.988	0.798	0.200	0.889	1.093	1.191
4	0.086	0.006	0.743	0.983	0.731	0.265	0.855	1.126	1.262
5	0.094	0.007	0.679	0.978	0.664	0.329	0.822	1.159	1.338
6	0.102	0.008	0.615	0.971	0.598	0.391	0.790	1.194	1.419
7	0.111	0.009	0.553	0.964	0.532	0.451	0.760	1.230	1.504
8	0.121	0.010	0.491	0.955	0.469	0.508	0.731	1.267	1.594
9	0.131	0.011	0.432	0.946	0.408	0.561	0.703	1.305	1.689
10	0.141	0.012	0.375	0.936	0.351	0.609	0.676	1.344	1.791
11	0.151	0.013	0.322	0.925	0.298	0.651	0.650	1.384	1.898
12	0.162	0.014	0.274	0.913	0.250	0.687	0.625	1.426	2.012
13	0.173	0.015	0.229	0.901	0.207	0.717	0.601	1.469	2.133
14	0.186	0.017	0.190	0.887	0.168	0.740	0.577	1.513	2.261
15	0.201	0.018	0.154	0.873	0.135	0.758	0.555	1.558	2.397
16	0.218	0.020	0.123	0.857	0.106	0.769	0.534	1.605	2.540
17	0.237	0.023	0.096	0.839	0.081	0.774	0.513	1.653	2.693
18	0.258	0.025	0.074	0.820	0.060	0.773	0.494	1.702	2.854
19	0.282	0.028	0.055	0.799	0.044	0.767	0.475	1.754	3.026
20	0.309	0.032	0.039	0.777	0.030	0.755	0.456	1.806	3.207
21	0.339	0.035	0.027	0.752	0.020	0.738	0.439	1.860	3.400
22	0.371	0.039	0.018	0.725	0.013	0.717	0.422	1.916	3.604
23	0.406	0.044	0.011	0.697	0.008	0.692	0.406	1.974	3.820
24	0.444	0.049	0.007	0.666	0.004	0.664	0.390	2.033	4.049
25	0.475	0.055	0.004	0.633	0.002	0.632	0.375	2.094	4.292
26	0.506	0.061	0.002	0.599	0.001	0.598	0.361	2.157	4.549
27	0.539	0.068	0.001	0.562	0.001	0.562	0.347	2.221	4.822
28	0.575	0.075	0.000	0.524	0.000	0.524	0.333	2.288	5.112
29	0.616	0.084	0.000	0.485	0.000	0.485	0.321	2.357	5.418
30	0.661	0.094	0.000	0.444	0.000	0.444	0.308	2.427	5.743
31	0.713	0.105	0.000	0.402	0.000	0.402	0.296	2.500	6.088
32	0.773	0.116	0.000	0.360	0.000	0.360	0.285	2.575	6.453
33	0.841	0.129	0.000	0.318	0.000	0.318	0.274	2.652	6.841
34	0.918	0.142	0.000	0.277	0.000	0.277	0.264	2.732	7.251
35	1.000	0.156	0.000	0.238	0.000	0.238	0.253	2.814	7.686
36	-	0.171	-	0.201	-	0.201	0.244	2.898	8.147
37	-	0.186	-	0.167	-	0.167	0.234	2.985	8.636
38	-	0.203	-	0.136	-	0.136	0.225	3.075	9.154
39	-	0.220	-	0.108	-	0.108	0.217	3.167	9.704
40	-	0.238	-	0.084	-	0.084	0.208	3.262	10.286
41	-	0.257	-	0.064	-	0.064	0.200	3.360	10.903
42	-	0.276	-	0.048	-	0.048	0.193	3.461	11.557
43	-	0.297	-	0.035	-	0.035	0.185	3.565	12.250
44	-	0.317	-	0.024	-	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	1.000	-	0.000	-	0.000	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
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99	-	-	-	-	-	-	0.021	18.659	320.096
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102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
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112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	28		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/1/1998		
(15)	**DATE OF FILING**	6/3/1998		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	M	
(17)	**CLAIMANT 2 (y)**	73	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.60	6.38
(19)	APV FOR CLAIMANT 2	20.75	14.26
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.68	5.72
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	15.00	9.20
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	187,823	133,501
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.786	7.239
(29)	APV OF MEDICAL BENEFIT	52,714	43,432

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.102	0.018	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.111	0.020	0.898	0.982	0.881	0.117	0.962	1.030	1.060
2	0.121	0.023	0.798	0.962	0.767	0.225	0.925	1.061	1.124
3	0.131	0.025	0.701	0.940	0.659	0.323	0.889	1.093	1.191
4	0.141	0.028	0.610	0.916	0.558	0.409	0.855	1.126	1.262
5	0.151	0.032	0.524	0.890	0.466	0.481	0.822	1.159	1.338
6	0.162	0.035	0.445	0.862	0.383	0.540	0.790	1.194	1.419
7	0.173	0.039	0.373	0.831	0.310	0.584	0.760	1.230	1.504
8	0.186	0.044	0.308	0.799	0.246	0.615	0.731	1.267	1.594
9	0.201	0.049	0.251	0.763	0.191	0.631	0.703	1.305	1.689
10	0.218	0.055	0.200	0.726	0.145	0.635	0.676	1.344	1.791
11	0.237	0.061	0.157	0.686	0.107	0.628	0.650	1.384	1.898
12	0.258	0.068	0.119	0.644	0.077	0.610	0.625	1.426	2.012
13	0.282	0.075	0.089	0.601	0.053	0.583	0.601	1.469	2.133
14	0.309	0.084	0.064	0.555	0.035	0.548	0.577	1.513	2.261
15	0.339	0.094	0.044	0.509	0.022	0.508	0.555	1.558	2.397
16	0.371	0.105	0.029	0.461	0.013	0.463	0.534	1.605	2.540
17	0.406	0.116	0.018	0.413	0.008	0.416	0.513	1.653	2.693
18	0.444	0.129	0.011	0.365	0.004	0.368	0.494	1.702	2.854
19	0.475	0.142	0.006	0.318	0.002	0.320	0.475	1.754	3.026
20	0.506	0.156	0.003	0.273	0.001	0.274	0.456	1.806	3.207
21	0.539	0.171	0.002	0.230	0.000	0.231	0.439	1.860	3.400
22	0.575	0.186	0.001	0.191	0.000	0.191	0.422	1.916	3.604
23	0.616	0.203	0.000	0.155	0.000	0.156	0.406	1.974	3.820
24	0.661	0.220	0.000	0.124	0.000	0.124	0.390	2.033	4.049
25	0.713	0.238	0.000	0.097	0.000	0.097	0.375	2.094	4.292
26	0.773	0.257	0.000	0.074	0.000	0.074	0.361	2.157	4.549
27	0.841	0.276	0.000	0.055	0.000	0.055	0.347	2.221	4.822
28	0.918	0.297	0.000	0.040	0.000	0.040	0.333	2.288	5.112
29	1.000	0.317	0.000	0.028	0.000	0.028	0.321	2.357	5.418
30	-	0.339	-	0.019	-	0.019	0.308	2.427	5.743
31	-	0.361	-	0.013	-	0.013	0.296	2.500	6.088
32	-	0.384	-	0.008	-	0.008	0.285	2.575	6.453
33	-	0.405	-	0.005	-	0.005	0.274	2.652	6.841
34	-	0.425	-	0.003	-	0.003	0.264	2.732	7.251
35	-	0.444	-	0.002	-	0.002	0.253	2.814	7.686
36	-	0.464	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.482	-	0.001	-	0.001	0.234	2.985	8.636
38	-	0.495	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	1.000	-	0.000	-	0.000	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	29	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	5/1/1998	
(15)	**DATE OF FILING**	6/16/1998	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	65	M
(17)	**CLAIMANT 2 (y)**	69	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.56	11.34
(19)	APV FOR CLAIMANT 2	26.13	16.81
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.51	9.61
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	16.68	8.94
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	266,044	175,268
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	20.432	14.212
(29)	APV OF MEDICAL BENEFIT	122,590	85,271

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.037	0.013	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.041	0.014	0.963	0.987	0.951	0.048	0.962	1.030	1.060
2	0.046	0.015	0.924	0.974	0.900	0.098	0.925	1.061	1.124
3	0.050	0.017	0.882	0.959	0.846	0.149	0.889	1.093	1.191
4	0.055	0.018	0.838	0.943	0.790	0.201	0.855	1.126	1.262
5	0.059	0.020	0.792	0.926	0.733	0.252	0.822	1.159	1.338
6	0.064	0.023	0.745	0.907	0.675	0.301	0.790	1.194	1.419
7	0.069	0.025	0.697	0.887	0.618	0.348	0.760	1.230	1.504
8	0.074	0.028	0.649	0.864	0.561	0.391	0.731	1.267	1.594
9	0.080	0.032	0.601	0.840	0.505	0.431	0.703	1.305	1.689
10	0.086	0.035	0.553	0.813	0.450	0.467	0.676	1.344	1.791
11	0.094	0.039	0.506	0.784	0.397	0.497	0.650	1.384	1.898
12	0.102	0.044	0.458	0.753	0.345	0.521	0.625	1.426	2.012
13	0.111	0.049	0.411	0.720	0.296	0.539	0.601	1.469	2.133
14	0.121	0.055	0.366	0.685	0.250	0.550	0.577	1.513	2.261
15	0.131	0.061	0.321	0.647	0.208	0.553	0.555	1.558	2.397
16	0.141	0.068	0.279	0.608	0.170	0.548	0.534	1.605	2.540
17	0.151	0.075	0.240	0.567	0.136	0.535	0.513	1.653	2.693
18	0.162	0.084	0.204	0.524	0.107	0.514	0.494	1.702	2.854
19	0.173	0.094	0.171	0.480	0.082	0.487	0.475	1.754	3.026
20	0.186	0.105	0.141	0.435	0.061	0.453	0.456	1.806	3.207
21	0.201	0.116	0.115	0.389	0.045	0.415	0.439	1.860	3.400
22	0.218	0.129	0.092	0.344	0.032	0.373	0.422	1.916	3.604
23	0.237	0.142	0.072	0.300	0.022	0.329	0.406	1.974	3.820
24	0.258	0.156	0.055	0.257	0.014	0.284	0.390	2.033	4.049
25	0.282	0.171	0.041	0.217	0.009	0.240	0.375	2.094	4.292
26	0.309	0.186	0.029	0.180	0.005	0.199	0.361	2.157	4.549
27	0.339	0.203	0.020	0.147	0.003	0.161	0.347	2.221	4.822
28	0.371	0.220	0.013	0.117	0.002	0.127	0.333	2.288	5.112
29	0.406	0.238	0.008	0.091	0.001	0.098	0.321	2.357	5.418
30	0.444	0.257	0.005	0.070	0.000	0.074	0.308	2.427	5.743
31	0.475	0.276	0.003	0.052	0.000	0.054	0.296	2.500	6.088
32	0.506	0.297	0.001	0.037	0.000	0.039	0.285	2.575	6.453
33	0.539	0.317	0.001	0.026	0.000	0.027	0.274	2.652	6.841
34	0.575	0.339	0.000	0.018	0.000	0.018	0.264	2.732	7.251
35	0.616	0.361	0.000	0.012	0.000	0.012	0.253	2.814	7.686
36	0.661	0.384	0.000	0.008	0.000	0.008	0.244	2.898	8.147
37	0.713	0.405	0.000	0.005	0.000	0.005	0.234	2.985	8.636
38	0.773	0.425	0.000	0.003	0.000	0.003	0.225	3.075	9.154
39	0.841	0.444	0.000	0.002	0.000	0.002	0.217	3.167	9.704
40	0.918	0.464	0.000	0.001	0.000	0.001	0.208	3.262	10.286
41	1.000	0.482	0.000	0.000	0.000	0.000	0.200	3.360	10.903
42	-	0.495	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	1.000	-	0.000	-	0.000	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	30	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	6/1/1979	
(15)	**DATE OF FILING**	8/17/1979	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	95	M
(17)	**CLAIMANT 2 (y)**	93	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.17	2.08
(19)	APV FOR CLAIMANT 2	5.31	4.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	1.84	1.79
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	3.80	3.20
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	49,204	44,130
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.233	2.142
(29)	APV OF MEDICAL BENEFIT	13,397	12,855

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.444	0.156	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.475	0.171	0.556	0.844	0.469	0.462	0.962	1.030	1.060
2	0.506	0.186	0.292	0.700	0.204	0.583	0.925	1.061	1.124
3	0.539	0.203	0.144	0.570	0.082	0.550	0.889	1.093	1.191
4	0.575	0.220	0.066	0.454	0.030	0.460	0.855	1.126	1.262
5	0.616	0.238	0.028	0.354	0.010	0.363	0.822	1.159	1.338
6	0.661	0.257	0.011	0.270	0.003	0.275	0.790	1.194	1.419
7	0.713	0.276	0.004	0.201	0.001	0.203	0.760	1.230	1.504
8	0.773	0.297	0.001	0.145	0.000	0.146	0.731	1.267	1.594
9	0.841	0.317	0.000	0.102	0.000	0.102	0.703	1.305	1.689
10	0.918	0.339	0.000	0.070	0.000	0.070	0.676	1.344	1.791
11	1.000	0.361	0.000	0.046	0.000	0.046	0.650	1.384	1.898
12	-	0.384	-	0.030	-	0.030	0.625	1.426	2.012
13	-	0.405	-	0.018	-	0.018	0.601	1.469	2.133
14	-	0.425	-	0.011	-	0.011	0.577	1.513	2.261
15	-	0.444	-	0.006	-	0.006	0.555	1.558	2.397
16	-	0.464	-	0.003	-	0.003	0.534	1.605	2.540
17	-	0.482	-	0.002	-	0.002	0.513	1.653	2.693
18	-	0.495	-	0.001	-	0.001	0.494	1.702	2.854
19	-	0.500	-	0.000	-	0.000	0.475	1.754	3.026
20	-	0.500	-	0.000	-	0.000	0.456	1.806	3.207
21	-	0.500	-	0.000	-	0.000	0.439	1.860	3.400
22	-	0.500	-	0.000	-	0.000	0.422	1.916	3.604
23	-	0.500	-	0.000	-	0.000	0.406	1.974	3.820
24	-	0.500	-	0.000	-	0.000	0.390	2.033	4.049
25	-	0.500	-	0.000	-	0.000	0.375	2.094	4.292
26	-	0.500	-	0.000	-	0.000	0.361	2.157	4.549
27	-	1.000	-	0.000	-	0.000	0.347	2.221	4.822
28	-	-	-	-	-	-	0.333	2.288	5.112
29	-	-	-	-	-	-	0.321	2.357	5.418
30	-	-	-	-	-	-	0.308	2.427	5.743
31	-	-	-	-	-	-	0.296	2.500	6.088
32	-	-	-	-	-	-	0.285	2.575	6.453
33	-	-	-	-	-	-	0.274	2.652	6.841
34	-	-	-	-	-	-	0.264	2.732	7.251
35	-	-	-	-	-	-	0.253	2.814	7.686
36	-	-	-	-	-	-	0.244	2.898	8.147
37	-	-	-	-	-	-	0.234	2.985	8.636
38	-	-	-	-	-	-	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	31		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	12/1/1975		
(15)	**DATE OF FILING**	4/18/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	91	M	
(17)	**CLAIMANT 2 (y)**	74	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.93	2.75
(19)	APV FOR CLAIMANT 2	19.54	13.64
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.82	2.66
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	16.83	11.08
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	158,056	113,093
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	3.069	2.878
(29)	APV OF MEDICAL BENEFIT	18,414	17,266

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.309	0.020	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.339	0.023	0.691	0.980	0.677	0.317	0.962	1.030	1.060
2	0.371	0.025	0.457	0.957	0.437	0.539	0.925	1.061	1.124
3	0.406	0.028	0.287	0.933	0.268	0.684	0.889	1.093	1.191
4	0.444	0.032	0.171	0.907	0.155	0.768	0.855	1.126	1.262
5	0.475	0.035	0.095	0.878	0.083	0.806	0.822	1.159	1.338
6	0.506	0.039	0.050	0.847	0.042	0.812	0.790	1.194	1.419
7	0.539	0.044	0.025	0.814	0.020	0.798	0.760	1.230	1.504
8	0.575	0.049	0.011	0.778	0.009	0.771	0.731	1.267	1.594
9	0.616	0.055	0.005	0.740	0.004	0.737	0.703	1.305	1.689
10	0.661	0.061	0.002	0.699	0.001	0.698	0.676	1.344	1.791
11	0.713	0.068	0.001	0.656	0.000	0.656	0.650	1.384	1.898
12	0.773	0.075	0.000	0.612	0.000	0.612	0.625	1.426	2.012
13	0.841	0.084	0.000	0.566	0.000	0.566	0.601	1.469	2.133
14	0.918	0.094	0.000	0.518	0.000	0.518	0.577	1.513	2.261
15	1.000	0.105	0.000	0.470	0.000	0.470	0.555	1.558	2.397
16	-	0.116	-	0.420	-	0.420	0.534	1.605	2.540
17	-	0.129	-	0.372	-	0.372	0.513	1.653	2.693
18	-	0.142	-	0.324	-	0.324	0.494	1.702	2.854
19	-	0.156	-	0.278	-	0.278	0.475	1.754	3.026
20	-	0.171	-	0.234	-	0.234	0.456	1.806	3.207
21	-	0.186	-	0.194	-	0.194	0.439	1.860	3.400
22	-	0.203	-	0.158	-	0.158	0.422	1.916	3.604
23	-	0.220	-	0.126	-	0.126	0.406	1.974	3.820
24	-	0.238	-	0.098	-	0.098	0.390	2.033	4.049
25	-	0.257	-	0.075	-	0.075	0.375	2.094	4.292
26	-	0.276	-	0.056	-	0.056	0.361	2.157	4.549
27	-	0.297	-	0.040	-	0.040	0.347	2.221	4.822
28	-	0.317	-	0.028	-	0.028	0.333	2.288	5.112
29	-	0.339	-	0.019	-	0.019	0.321	2.357	5.418
30	-	0.361	-	0.013	-	0.013	0.308	2.427	5.743
31	-	0.384	-	0.008	-	0.008	0.296	2.500	6.088
32	-	0.405	-	0.005	-	0.005	0.285	2.575	6.453
33	-	0.425	-	0.003	-	0.003	0.274	2.652	6.841
34	-	0.444	-	0.002	-	0.002	0.264	2.732	7.251
35	-	0.464	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.482	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.495	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	1.000	-	0.000	-	0.000	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	32		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/4/1975		
(15)	**DATE OF FILING**	6/24/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	81	M	
(17)	**CLAIMANT 2 (y)**	76	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.93	5.16
(19)	APV FOR CLAIMANT 2	17.26	12.43
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.22	4.62
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	12.75	8.35
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	154,458	114,707
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	6.629	5.703
(29)	APV OF MEDICAL BENEFIT	39,776	34,221

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.141	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.151	0.028	0.859	0.975	0.837	0.159	0.962	1.030	1.060
2	0.162	0.032	0.729	0.947	0.691	0.295	0.925	1.061	1.124
3	0.173	0.035	0.611	0.917	0.561	0.407	0.889	1.093	1.191
4	0.186	0.039	0.505	0.885	0.447	0.496	0.855	1.126	1.262
5	0.201	0.044	0.411	0.850	0.349	0.562	0.822	1.159	1.338
6	0.218	0.049	0.328	0.812	0.267	0.607	0.790	1.194	1.419
7	0.237	0.055	0.257	0.772	0.198	0.632	0.760	1.230	1.504
8	0.258	0.061	0.196	0.730	0.143	0.640	0.731	1.267	1.594
9	0.282	0.068	0.145	0.686	0.100	0.632	0.703	1.305	1.689
10	0.309	0.075	0.104	0.639	0.067	0.610	0.676	1.344	1.791
11	0.339	0.084	0.072	0.591	0.043	0.578	0.650	1.384	1.898
12	0.371	0.094	0.048	0.541	0.026	0.537	0.625	1.426	2.012
13	0.406	0.105	0.030	0.491	0.015	0.491	0.601	1.469	2.133
14	0.444	0.116	0.018	0.439	0.008	0.441	0.577	1.513	2.261
15	0.475	0.129	0.010	0.388	0.004	0.390	0.555	1.558	2.397
16	0.506	0.142	0.005	0.338	0.002	0.340	0.534	1.605	2.540
17	0.539	0.156	0.003	0.290	0.001	0.291	0.513	1.653	2.693
18	0.575	0.171	0.001	0.245	0.000	0.246	0.494	1.702	2.854
19	0.616	0.186	0.001	0.203	0.000	0.203	0.475	1.754	3.026
20	0.661	0.203	0.000	0.165	0.000	0.165	0.456	1.806	3.207
21	0.713	0.220	0.000	0.132	0.000	0.132	0.439	1.860	3.400
22	0.773	0.238	0.000	0.103	0.000	0.103	0.422	1.916	3.604
23	0.841	0.257	0.000	0.078	0.000	0.078	0.406	1.974	3.820
24	0.918	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	1.000	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	-	0.317	-	0.030	-	0.030	0.361	2.157	4.549
27	-	0.339	-	0.020	-	0.020	0.347	2.221	4.822
28	-	0.361	-	0.013	-	0.013	0.333	2.288	5.112
29	-	0.384	-	0.009	-	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
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61	-	-	-	-	-	-	0.091	6.068	34.967
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73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
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89	-	-	-	-	-	-	0.030	13.884	178.740
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
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112	-	-	-	-	-	-	0.012	27.401	682.742
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114	-	-	-	-	-	-	0.011	29.070	767.129
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	33		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	11/14/1979		
(15)	**DATE OF FILING**	7/28/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	76	M	
(17)	**CLAIMANT 2 (y)**	70	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		8.10	6.73
(19)	APV FOR CLAIMANT 2		24.72	16.17
(20)	APV FOR BOTH CLAIMANTS ALIVE		7.29	6.17
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		18.22	10.56
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		218,951	148,729
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		9.439	7.686
(29)	APV OF MEDICAL BENEFIT		56,637	46,116

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.094	0.014	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.102	0.015	0.906	0.986	0.894	0.105	0.962	1.030	1.060
2	0.111	0.017	0.814	0.972	0.790	0.204	0.925	1.061	1.124
3	0.121	0.018	0.723	0.955	0.691	0.297	0.889	1.093	1.191
4	0.131	0.020	0.636	0.938	0.596	0.381	0.855	1.126	1.262
5	0.141	0.023	0.552	0.919	0.508	0.456	0.822	1.159	1.338
6	0.151	0.025	0.475	0.898	0.426	0.520	0.790	1.194	1.419
7	0.162	0.028	0.403	0.875	0.353	0.573	0.760	1.230	1.504
8	0.173	0.032	0.338	0.850	0.287	0.614	0.731	1.267	1.594
9	0.186	0.035	0.279	0.823	0.230	0.643	0.703	1.305	1.689
10	0.201	0.039	0.227	0.794	0.180	0.661	0.676	1.344	1.791
11	0.218	0.044	0.181	0.763	0.138	0.668	0.650	1.384	1.898
12	0.237	0.049	0.142	0.729	0.104	0.664	0.625	1.426	2.012
13	0.258	0.055	0.108	0.694	0.075	0.652	0.601	1.469	2.133
14	0.282	0.061	0.080	0.656	0.053	0.631	0.577	1.513	2.261
15	0.309	0.068	0.058	0.616	0.035	0.602	0.555	1.558	2.397
16	0.339	0.075	0.040	0.574	0.023	0.568	0.534	1.605	2.540
17	0.371	0.084	0.026	0.531	0.014	0.529	0.513	1.653	2.693
18	0.406	0.094	0.017	0.486	0.008	0.487	0.494	1.702	2.854
19	0.444	0.105	0.010	0.440	0.004	0.442	0.475	1.754	3.026
20	0.475	0.116	0.005	0.394	0.002	0.396	0.456	1.806	3.207
21	0.506	0.129	0.003	0.349	0.001	0.349	0.439	1.860	3.400
22	0.539	0.142	0.001	0.304	0.000	0.304	0.422	1.916	3.604
23	0.575	0.156	0.001	0.261	0.000	0.261	0.406	1.974	3.820
24	0.616	0.171	0.000	0.220	0.000	0.220	0.390	2.033	4.049
25	0.661	0.186	0.000	0.182	0.000	0.182	0.375	2.094	4.292
26	0.713	0.203	0.000	0.148	0.000	0.148	0.361	2.157	4.549
27	0.773	0.220	0.000	0.118	0.000	0.118	0.347	2.221	4.822
28	0.841	0.238	0.000	0.092	0.000	0.092	0.333	2.288	5.112
29	0.918	0.257	0.000	0.070	0.000	0.070	0.321	2.357	5.418
30	1.000	0.276	0.000	0.052	0.000	0.052	0.308	2.427	5.743
31	-	0.297	-	0.038	-	0.038	0.296	2.500	6.088
32	-	0.317	-	0.027	-	0.027	0.285	2.575	6.453
33	-	0.339	-	0.018	-	0.018	0.274	2.652	6.841
34	-	0.361	-	0.012	-	0.012	0.264	2.732	7.251
35	-	0.384	-	0.008	-	0.008	0.253	2.814	7.686
36	-	0.405	-	0.005	-	0.005	0.244	2.898	8.147
37	-	0.425	-	0.003	-	0.003	0.234	2.985	8.636
38	-	0.444	-	0.002	-	0.002	0.225	3.075	9.154
39	-	0.464	-	0.001	-	0.001	0.217	3.167	9.704
40	-	0.482	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.495	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	1.000	-	0.000	-	0.000	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	34		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	10/1/1976		
(15)	**DATE OF FILING**	10/2/1976		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	M	
(17)	**CLAIMANT 2 (y)**	76	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.60	6.38
(19)	APV FOR CLAIMANT 2	17.26	12.43
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.38	5.50
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	12.10	7.81
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	162,687	120,549
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.786	7.239
(29)	APV OF MEDICAL BENEFIT	52,714	43,432

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.102	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.111	0.028	0.898	0.975	0.875	0.122	0.962	1.030	1.060
2	0.121	0.032	0.798	0.947	0.756	0.234	0.925	1.061	1.124
3	0.131	0.035	0.701	0.917	0.643	0.332	0.889	1.093	1.191
4	0.141	0.039	0.610	0.885	0.539	0.416	0.855	1.126	1.262
5	0.151	0.044	0.524	0.850	0.445	0.483	0.822	1.159	1.338
6	0.162	0.049	0.445	0.812	0.361	0.535	0.790	1.194	1.419
7	0.173	0.055	0.373	0.772	0.288	0.569	0.760	1.230	1.504
8	0.186	0.061	0.308	0.730	0.225	0.588	0.731	1.267	1.594
9	0.201	0.068	0.251	0.686	0.172	0.593	0.703	1.305	1.689
10	0.218	0.075	0.200	0.639	0.128	0.583	0.676	1.344	1.791
11	0.237	0.084	0.157	0.591	0.093	0.562	0.650	1.384	1.898
12	0.258	0.094	0.119	0.541	0.065	0.531	0.625	1.426	2.012
13	0.282	0.105	0.089	0.491	0.043	0.492	0.601	1.469	2.133
14	0.309	0.116	0.064	0.439	0.028	0.447	0.577	1.513	2.261
15	0.339	0.129	0.044	0.388	0.017	0.398	0.555	1.558	2.397
16	0.371	0.142	0.029	0.338	0.010	0.348	0.534	1.605	2.540
17	0.406	0.156	0.018	0.290	0.005	0.298	0.513	1.653	2.693
18	0.444	0.171	0.011	0.245	0.003	0.250	0.494	1.702	2.854
19	0.475	0.186	0.006	0.203	0.001	0.207	0.475	1.754	3.026
20	0.506	0.203	0.003	0.165	0.001	0.167	0.456	1.806	3.207
21	0.539	0.220	0.002	0.132	0.000	0.133	0.439	1.860	3.400
22	0.575	0.238	0.001	0.103	0.000	0.103	0.422	1.916	3.604
23	0.616	0.257	0.000	0.078	0.000	0.079	0.406	1.974	3.820
24	0.661	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	0.713	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	0.773	0.317	0.000	0.030	0.000	0.030	0.361	2.157	4.549
27	0.841	0.339	0.000	0.020	0.000	0.020	0.347	2.221	4.822
28	0.918	0.361	0.000	0.013	0.000	0.013	0.333	2.288	5.112
29	1.000	0.384	0.000	0.009	0.000	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	35		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	2/1/1987		
(15)	**DATE OF FILING**	3/2/1987		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	81	M	
(17)	**CLAIMANT 2 (y)**	81	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		5.93	5.16
(19)	APV FOR CLAIMANT 2		12.44	9.62
(20)	APV FOR BOTH CLAIMANTS ALIVE		4.81	4.30
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		8.75	6.19
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		119,819	94,868
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		6.629	5.703
(29)	APV OF MEDICAL BENEFIT		39,776	34,221

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.141	0.044	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.151	0.049	0.859	0.956	0.821	0.172	0.962	1.030	1.060
2	0.162	0.055	0.729	0.909	0.663	0.312	0.925	1.061	1.124
3	0.173	0.061	0.611	0.859	0.525	0.420	0.889	1.093	1.191
4	0.186	0.068	0.505	0.807	0.408	0.497	0.855	1.126	1.262
5	0.201	0.075	0.411	0.752	0.309	0.545	0.822	1.159	1.338
6	0.218	0.084	0.328	0.695	0.228	0.567	0.790	1.194	1.419
7	0.237	0.094	0.257	0.637	0.164	0.567	0.760	1.230	1.504
8	0.258	0.105	0.196	0.577	0.113	0.547	0.731	1.267	1.594
9	0.282	0.116	0.145	0.517	0.075	0.512	0.703	1.305	1.689
10	0.309	0.129	0.104	0.457	0.048	0.466	0.676	1.344	1.791
11	0.339	0.142	0.072	0.398	0.029	0.413	0.650	1.384	1.898
12	0.371	0.156	0.048	0.341	0.016	0.357	0.625	1.426	2.012
13	0.406	0.171	0.030	0.288	0.009	0.301	0.601	1.469	2.133
14	0.444	0.186	0.018	0.239	0.004	0.248	0.577	1.513	2.261
15	0.475	0.203	0.010	0.195	0.002	0.201	0.555	1.558	2.397
16	0.506	0.220	0.005	0.155	0.001	0.159	0.534	1.605	2.540
17	0.539	0.238	0.003	0.121	0.000	0.123	0.513	1.653	2.693
18	0.575	0.257	0.001	0.092	0.000	0.093	0.494	1.702	2.854
19	0.616	0.276	0.001	0.069	0.000	0.069	0.475	1.754	3.026
20	0.661	0.297	0.000	0.050	0.000	0.050	0.456	1.806	3.207
21	0.713	0.317	0.000	0.035	0.000	0.035	0.439	1.860	3.400
22	0.773	0.339	0.000	0.024	0.000	0.024	0.422	1.916	3.604
23	0.841	0.361	0.000	0.016	0.000	0.016	0.406	1.974	3.820
24	0.918	0.384	0.000	0.010	0.000	0.010	0.390	2.033	4.049
25	1.000	0.405	0.000	0.006	0.000	0.006	0.375	2.094	4.292
26	-	0.425	-	0.004	-	0.004	0.361	2.157	4.549
27	-	0.444	-	0.002	-	0.002	0.347	2.221	4.822
28	-	0.464	-	0.001	-	0.001	0.333	2.288	5.112
29	-	0.482	-	0.001	-	0.001	0.321	2.357	5.418
30	-	0.495	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	0.500	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	1.000	-	0.000	-	0.000	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	36	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	11/1/1990	
(15)	**DATE OF FILING**	1/22/1991	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	78	M
(17)	**CLAIMANT 2 (y)**	70	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.14	6.05
(19)	APV FOR CLAIMANT 2	24.72	16.17
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.54	5.61
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	18.79	10.99
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	214,625	145,733
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.181	6.818
(29)	APV OF MEDICAL BENEFIT	49,086	40,907

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.111	0.014	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.121	0.015	0.889	0.986	0.876	0.122	0.962	1.030	1.060
2	0.131	0.017	0.781	0.972	0.759	0.235	0.925	1.061	1.124
3	0.141	0.018	0.679	0.955	0.649	0.337	0.889	1.093	1.191
4	0.151	0.020	0.583	0.938	0.547	0.427	0.855	1.126	1.262
5	0.162	0.023	0.495	0.919	0.455	0.504	0.822	1.159	1.338
6	0.173	0.025	0.415	0.898	0.373	0.568	0.790	1.194	1.419
7	0.186	0.028	0.343	0.875	0.300	0.618	0.760	1.230	1.504
8	0.201	0.032	0.279	0.850	0.237	0.655	0.731	1.267	1.594
9	0.218	0.035	0.223	0.823	0.184	0.679	0.703	1.305	1.689
10	0.237	0.039	0.174	0.794	0.139	0.692	0.676	1.344	1.791
11	0.258	0.044	0.133	0.763	0.102	0.693	0.650	1.384	1.898
12	0.282	0.049	0.099	0.729	0.072	0.684	0.625	1.426	2.012
13	0.309	0.055	0.071	0.694	0.049	0.666	0.601	1.469	2.133
14	0.339	0.061	0.049	0.656	0.032	0.640	0.577	1.513	2.261
15	0.371	0.068	0.032	0.616	0.020	0.608	0.555	1.558	2.397
16	0.406	0.075	0.020	0.574	0.012	0.571	0.534	1.605	2.540
17	0.444	0.084	0.012	0.531	0.006	0.530	0.513	1.653	2.693
18	0.475	0.094	0.007	0.486	0.003	0.486	0.494	1.702	2.854
19	0.506	0.105	0.004	0.440	0.002	0.441	0.475	1.754	3.026
20	0.539	0.116	0.002	0.394	0.001	0.395	0.456	1.806	3.207
21	0.575	0.129	0.001	0.349	0.000	0.349	0.439	1.860	3.400
22	0.616	0.142	0.000	0.304	0.000	0.304	0.422	1.916	3.604
23	0.661	0.156	0.000	0.261	0.000	0.261	0.406	1.974	3.820
24	0.713	0.171	0.000	0.220	0.000	0.220	0.390	2.033	4.049
25	0.773	0.186	0.000	0.182	0.000	0.182	0.375	2.094	4.292
26	0.841	0.203	0.000	0.148	0.000	0.148	0.361	2.157	4.549
27	0.918	0.220	0.000	0.118	0.000	0.118	0.347	2.221	4.822
28	1.000	0.238	0.000	0.092	0.000	0.092	0.333	2.288	5.112
29	-	0.257	-	0.070	-	0.070	0.321	2.357	5.418
30	-	0.276	-	0.052	-	0.052	0.308	2.427	5.743
31	-	0.297	-	0.038	-	0.038	0.296	2.500	6.088
32	-	0.317	-	0.027	-	0.027	0.285	2.575	6.453
33	-	0.339	-	0.018	-	0.018	0.274	2.652	6.841
34	-	0.361	-	0.012	-	0.012	0.264	2.732	7.251
35	-	0.384	-	0.008	-	0.008	0.253	2.814	7.686
36	-	0.405	-	0.005	-	0.005	0.244	2.898	8.147
37	-	0.425	-	0.003	-	0.003	0.234	2.985	8.636
38	-	0.444	-	0.002	-	0.002	0.225	3.075	9.154
39	-	0.464	-	0.001	-	0.001	0.217	3.167	9.704
40	-	0.482	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.495	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	1.000	-	0.000	-	0.000	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
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(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	37		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/1/1991		
(15)	**DATE OF FILING**	4/2/1991		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	73	M	
(17)	**CLAIMANT 2 (y)**	76	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		9.75	7.84
(19)	APV FOR CLAIMANT 2		17.26	12.43
(20)	APV FOR BOTH CLAIMANTS ALIVE		7.70	6.46
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		11.61	7.35
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		173,863	127,936
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT		11.698	9.170
(29)	APV OF MEDICAL BENEFIT		70,189	55,018

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.074	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.080	0.028	0.926	0.975	0.903	0.095	0.962	1.030	1.060
2	0.086	0.032	0.853	0.947	0.807	0.185	0.925	1.061	1.124
3	0.094	0.035	0.779	0.917	0.714	0.267	0.889	1.093	1.191
4	0.102	0.039	0.706	0.885	0.624	0.342	0.855	1.126	1.262
5	0.111	0.044	0.634	0.850	0.539	0.406	0.822	1.159	1.338
6	0.121	0.049	0.563	0.812	0.458	0.460	0.790	1.194	1.419
7	0.131	0.055	0.495	0.772	0.382	0.503	0.760	1.230	1.504
8	0.141	0.061	0.430	0.730	0.314	0.532	0.731	1.267	1.594
9	0.151	0.068	0.370	0.686	0.253	0.548	0.703	1.305	1.689
10	0.162	0.075	0.314	0.639	0.201	0.552	0.676	1.344	1.791
11	0.173	0.084	0.263	0.591	0.155	0.543	0.650	1.384	1.898
12	0.186	0.094	0.217	0.541	0.118	0.523	0.625	1.426	2.012
13	0.201	0.105	0.177	0.491	0.087	0.494	0.601	1.469	2.133
14	0.218	0.116	0.141	0.439	0.062	0.456	0.577	1.513	2.261
15	0.237	0.129	0.111	0.388	0.043	0.413	0.555	1.558	2.397
16	0.258	0.142	0.084	0.338	0.029	0.365	0.534	1.605	2.540
17	0.282	0.156	0.063	0.290	0.018	0.316	0.513	1.653	2.693
18	0.309	0.171	0.045	0.245	0.011	0.268	0.494	1.702	2.854
19	0.339	0.186	0.031	0.203	0.006	0.222	0.475	1.754	3.026
20	0.371	0.203	0.021	0.165	0.003	0.179	0.456	1.806	3.207
21	0.406	0.220	0.013	0.132	0.002	0.141	0.439	1.860	3.400
22	0.444	0.238	0.008	0.103	0.001	0.109	0.422	1.916	3.604
23	0.475	0.257	0.004	0.078	0.000	0.082	0.406	1.974	3.820
24	0.506	0.276	0.002	0.058	0.000	0.060	0.390	2.033	4.049
25	0.539	0.297	0.001	0.042	0.000	0.043	0.375	2.094	4.292
26	0.575	0.317	0.001	0.030	0.000	0.030	0.361	2.157	4.549
27	0.616	0.339	0.000	0.020	0.000	0.020	0.347	2.221	4.822
28	0.661	0.361	0.000	0.013	0.000	0.013	0.333	2.288	5.112
29	0.713	0.384	0.000	0.009	0.000	0.009	0.321	2.357	5.418
30	0.773	0.405	0.000	0.005	0.000	0.005	0.308	2.427	5.743
31	0.841	0.425	0.000	0.003	0.000	0.003	0.296	2.500	6.088
32	0.918	0.444	0.000	0.002	0.000	0.002	0.285	2.575	6.453
33	1.000	0.464	0.000	0.001	0.000	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
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52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
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72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
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(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	38		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/1/1992		
(15)	**DATE OF FILING**	8/30/1994		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	74	M	
(17)	**CLAIMANT 2 (y)**	74	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.17	7.46
(19)	APV FOR CLAIMANT 2	19.54	13.64
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.65	6.43
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	13.41	8.25
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	186,809	134,297
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.897	8.654
(29)	APV OF MEDICAL BENEFIT	65,379	51,924

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.080	0.020	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.086	0.023	0.920	0.980	0.902	0.097	0.962	1.030	1.060
2	0.094	0.025	0.841	0.957	0.805	0.188	0.925	1.061	1.124
3	0.102	0.028	0.762	0.933	0.711	0.273	0.889	1.093	1.191
4	0.111	0.032	0.684	0.907	0.620	0.350	0.855	1.126	1.262
5	0.121	0.035	0.608	0.878	0.534	0.418	0.822	1.159	1.338
6	0.131	0.039	0.535	0.847	0.453	0.476	0.790	1.194	1.419
7	0.141	0.044	0.465	0.814	0.378	0.522	0.760	1.230	1.504
8	0.151	0.049	0.399	0.778	0.310	0.556	0.731	1.267	1.594
9	0.162	0.055	0.339	0.740	0.251	0.577	0.703	1.305	1.689
10	0.173	0.061	0.284	0.699	0.199	0.586	0.676	1.344	1.791
11	0.186	0.068	0.235	0.656	0.154	0.583	0.650	1.384	1.898
12	0.201	0.075	0.191	0.612	0.117	0.569	0.625	1.426	2.012
13	0.218	0.084	0.153	0.566	0.086	0.546	0.601	1.469	2.133
14	0.237	0.094	0.119	0.518	0.062	0.514	0.577	1.513	2.261
15	0.258	0.105	0.091	0.470	0.043	0.475	0.555	1.558	2.397
16	0.282	0.116	0.068	0.420	0.028	0.431	0.534	1.605	2.540
17	0.309	0.129	0.048	0.372	0.018	0.384	0.513	1.653	2.693
18	0.339	0.142	0.033	0.324	0.011	0.336	0.494	1.702	2.854
19	0.371	0.156	0.022	0.278	0.006	0.288	0.475	1.754	3.026
20	0.406	0.171	0.014	0.234	0.003	0.242	0.456	1.806	3.207
21	0.444	0.186	0.008	0.194	0.002	0.200	0.439	1.860	3.400
22	0.475	0.203	0.005	0.158	0.001	0.161	0.422	1.916	3.604
23	0.506	0.220	0.002	0.126	0.000	0.128	0.406	1.974	3.820
24	0.539	0.238	0.001	0.098	0.000	0.099	0.390	2.033	4.049
25	0.575	0.257	0.001	0.075	0.000	0.076	0.375	2.094	4.292
26	0.616	0.276	0.000	0.056	0.000	0.056	0.361	2.157	4.549
27	0.661	0.297	0.000	0.040	0.000	0.040	0.347	2.221	4.822
28	0.713	0.317	0.000	0.028	0.000	0.028	0.333	2.288	5.112
29	0.773	0.339	0.000	0.019	0.000	0.019	0.321	2.357	5.418
30	0.841	0.361	0.000	0.013	0.000	0.013	0.308	2.427	5.743
31	0.918	0.384	0.000	0.008	0.000	0.008	0.296	2.500	6.088
32	1.000	0.405	0.000	0.005	0.000	0.005	0.285	2.575	6.453
33	-	0.425	-	0.003	-	0.003	0.274	2.652	6.841
34	-	0.444	-	0.002	-	0.002	0.264	2.732	7.251
35	-	0.464	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.482	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.495	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	1.000	-	0.000	-	0.000	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	39	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	3/29/1994	
(15)	**DATE OF FILING**	9/27/1994	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	92	M
(17)	**CLAIMANT 2 (y)**	82	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.71	2.56
(19)	APV FOR CLAIMANT 2	11.61	9.11
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.50	2.38
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	9.32	6.91
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	98,119	78,673
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.825	2.667
(29)	APV OF MEDICAL BENEFIT	16,953	16,000

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.339	0.049	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.371	0.055	0.661	0.951	0.629	0.354	0.962	1.030	1.060
2	0.406	0.061	0.416	0.899	0.374	0.567	0.925	1.061	1.124
3	0.444	0.068	0.247	0.844	0.208	0.674	0.889	1.093	1.191
4	0.475	0.075	0.137	0.787	0.108	0.708	0.855	1.126	1.262
5	0.506	0.084	0.072	0.727	0.052	0.695	0.822	1.159	1.338
6	0.539	0.094	0.036	0.666	0.024	0.654	0.790	1.194	1.419
7	0.575	0.105	0.016	0.604	0.010	0.600	0.760	1.230	1.504
8	0.616	0.116	0.007	0.541	0.004	0.540	0.731	1.267	1.594
9	0.661	0.129	0.003	0.478	0.001	0.478	0.703	1.305	1.689
10	0.713	0.142	0.001	0.416	0.000	0.416	0.676	1.344	1.791
11	0.773	0.156	0.000	0.357	0.000	0.357	0.650	1.384	1.898
12	0.841	0.171	0.000	0.301	0.000	0.302	0.625	1.426	2.012
13	0.918	0.186	0.000	0.250	0.000	0.250	0.601	1.469	2.133
14	1.000	0.203	0.000	0.203	0.000	0.203	0.577	1.513	2.261
15	-	0.220	-	0.162	-	0.162	0.555	1.558	2.397
16	-	0.238	-	0.127	-	0.127	0.534	1.605	2.540
17	-	0.257	-	0.097	-	0.097	0.513	1.653	2.693
18	-	0.276	-	0.072	-	0.072	0.494	1.702	2.854
19	-	0.297	-	0.052	-	0.052	0.475	1.754	3.026
20	-	0.317	-	0.037	-	0.037	0.456	1.806	3.207
21	-	0.339	-	0.025	-	0.025	0.439	1.860	3.400
22	-	0.361	-	0.016	-	0.016	0.422	1.916	3.604
23	-	0.384	-	0.011	-	0.011	0.406	1.974	3.820
24	-	0.405	-	0.006	-	0.006	0.390	2.033	4.049
25	-	0.425	-	0.004	-	0.004	0.375	2.094	4.292
26	-	0.444	-	0.002	-	0.002	0.361	2.157	4.549
27	-	0.464	-	0.001	-	0.001	0.347	2.221	4.822
28	-	0.482	-	0.001	-	0.001	0.333	2.288	5.112
29	-	0.495	-	0.000	-	0.000	0.321	2.357	5.418
30	-	0.500	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	0.500	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	1.000	-	0.000	-	0.000	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	40	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	1/1/1995	
(15)	**DATE OF FILING**	1/31/1995	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	67	M
(17)	**CLAIMANT 2 (y)**	51	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.84	10.36
(19)	APV FOR CLAIMANT 2	63.23	29.04
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.44	10.13
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	50.19	19.13
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	528,150	257,741
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	17.737	12.744
(29)	APV OF MEDICAL BENEFIT	106,419	76,463

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.002	0.954	0.998	0.953	0.047	0.962	1.030	1.060
2	0.055	0.002	0.907	0.997	0.904	0.096	0.925	1.061	1.124
3	0.059	0.002	0.857	0.995	0.852	0.147	0.889	1.093	1.191
4	0.064	0.002	0.806	0.993	0.800	0.199	0.855	1.126	1.262
5	0.069	0.003	0.754	0.990	0.747	0.250	0.822	1.159	1.338
6	0.074	0.003	0.703	0.988	0.694	0.302	0.790	1.194	1.419
7	0.080	0.003	0.651	0.985	0.641	0.354	0.760	1.230	1.504
8	0.086	0.004	0.599	0.982	0.588	0.405	0.731	1.267	1.594
9	0.094	0.004	0.547	0.978	0.535	0.455	0.703	1.305	1.689
10	0.102	0.005	0.496	0.974	0.483	0.504	0.676	1.344	1.791
11	0.111	0.006	0.445	0.969	0.431	0.551	0.650	1.384	1.898
12	0.121	0.007	0.396	0.963	0.381	0.597	0.625	1.426	2.012
13	0.131	0.008	0.348	0.957	0.333	0.639	0.601	1.469	2.133
14	0.141	0.009	0.302	0.949	0.287	0.678	0.577	1.513	2.261
15	0.151	0.010	0.260	0.941	0.244	0.712	0.555	1.558	2.397
16	0.162	0.011	0.221	0.932	0.206	0.741	0.534	1.605	2.540
17	0.173	0.012	0.185	0.922	0.170	0.766	0.513	1.653	2.693
18	0.186	0.013	0.153	0.911	0.139	0.785	0.494	1.702	2.854
19	0.201	0.014	0.124	0.899	0.112	0.800	0.475	1.754	3.026
20	0.218	0.015	0.099	0.887	0.088	0.810	0.456	1.806	3.207
21	0.237	0.017	0.078	0.874	0.068	0.816	0.439	1.860	3.400
22	0.258	0.018	0.059	0.859	0.051	0.817	0.422	1.916	3.604
23	0.282	0.020	0.044	0.844	0.037	0.813	0.406	1.974	3.820
24	0.309	0.023	0.032	0.826	0.026	0.806	0.390	2.033	4.049
25	0.339	0.025	0.022	0.808	0.018	0.794	0.375	2.094	4.292
26	0.371	0.028	0.014	0.787	0.011	0.779	0.361	2.157	4.549
27	0.406	0.032	0.009	0.765	0.007	0.760	0.347	2.221	4.822
28	0.444	0.035	0.005	0.741	0.004	0.738	0.333	2.288	5.112
29	0.475	0.039	0.003	0.714	0.002	0.713	0.321	2.357	5.418
30	0.506	0.044	0.002	0.686	0.001	0.686	0.308	2.427	5.743
31	0.539	0.049	0.001	0.656	0.001	0.656	0.296	2.500	6.088
32	0.575	0.055	0.000	0.624	0.000	0.624	0.285	2.575	6.453
33	0.616	0.061	0.000	0.590	0.000	0.590	0.274	2.652	6.841
34	0.661	0.068	0.000	0.554	0.000	0.554	0.264	2.732	7.251
35	0.713	0.075	0.000	0.516	0.000	0.516	0.253	2.814	7.686
36	0.773	0.084	0.000	0.477	0.000	0.477	0.244	2.898	8.147
37	0.841	0.094	0.000	0.437	0.000	0.437	0.234	2.985	8.636
38	0.918	0.105	0.000	0.396	0.000	0.396	0.225	3.075	9.154
39	1.000	0.116	0.000	0.355	0.000	0.355	0.217	3.167	9.704
40	-	0.129	-	0.314	-	0.314	0.208	3.262	10.286
41	-	0.142	-	0.273	-	0.273	0.200	3.360	10.903
42	-	0.156	-	0.234	-	0.234	0.193	3.461	11.557
43	-	0.171	-	0.198	-	0.198	0.185	3.565	12.250
44	-	0.186	-	0.164	-	0.164	0.178	3.671	12.985
45	-	0.203	-	0.134	-	0.134	0.171	3.782	13.765
46	-	0.220	-	0.106	-	0.106	0.165	3.895	14.590
47	-	0.238	-	0.083	-	0.083	0.158	4.012	15.466
48	-	0.257	-	0.063	-	0.063	0.152	4.132	16.394
49	-	0.276	-	0.047	-	0.047	0.146	4.256	17.378
50	-	0.297	-	0.034	-	0.034	0.141	4.384	18.420
51	-	0.317	-	0.024	-	0.024	0.135	4.515	19.525
52	-	0.339	-	0.016	-	0.016	0.130	4.651	20.697
53	-	0.361	-	0.011	-	0.011	0.125	4.790	21.939
54	-	0.384	-	0.007	-	0.007	0.120	4.934	23.255
55	-	0.405	-	0.004	-	0.004	0.116	5.082	24.650
56	-	0.425	-	0.003	-	0.003	0.111	5.235	26.129
57	-	0.444	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.464	-	0.001	-	0.001	0.103	5.553	29.359
59	-	0.482	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.495	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	0.500	-	0.000	-	0.000	0.069	7.463	52.577
69	-	1.000	-	0.000	-	0.000	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
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75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
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103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	41	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	10/1/1993	
(15)	**DATE OF FILING**	1/21/1995	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	75	M
(17)	**CLAIMANT 2 (y)**	71	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.62	7.09
(19)	APV FOR CLAIMANT 2	23.35	15.53
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.61	6.39
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	16.75	9.83
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	211,412	145,786
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.143	8.159
(29)	APV OF MEDICAL BENEFIT	60,860	48,952

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.086	0.015	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	0.017	0.914	0.985	0.900	0.099	0.962	1.030	1.060
2	0.102	0.018	0.828	0.969	0.802	0.192	0.925	1.061	1.124
3	0.111	0.020	0.743	0.951	0.707	0.280	0.889	1.093	1.191
4	0.121	0.023	0.661	0.932	0.616	0.361	0.855	1.126	1.262
5	0.131	0.025	0.581	0.910	0.529	0.434	0.822	1.159	1.338
6	0.141	0.028	0.505	0.887	0.448	0.496	0.790	1.194	1.419
7	0.151	0.032	0.434	0.862	0.374	0.548	0.760	1.230	1.504
8	0.162	0.035	0.368	0.835	0.307	0.588	0.731	1.267	1.594
9	0.173	0.039	0.309	0.805	0.249	0.617	0.703	1.305	1.689
10	0.186	0.044	0.255	0.774	0.197	0.634	0.676	1.344	1.791
11	0.201	0.049	0.208	0.740	0.153	0.640	0.650	1.384	1.898
12	0.218	0.055	0.166	0.703	0.117	0.636	0.625	1.426	2.012
13	0.237	0.061	0.130	0.665	0.086	0.622	0.601	1.469	2.133
14	0.258	0.068	0.099	0.624	0.062	0.600	0.577	1.513	2.261
15	0.282	0.075	0.073	0.582	0.043	0.570	0.555	1.558	2.397
16	0.309	0.084	0.053	0.538	0.028	0.534	0.534	1.605	2.540
17	0.339	0.094	0.036	0.493	0.018	0.493	0.513	1.653	2.693
18	0.371	0.105	0.024	0.447	0.011	0.449	0.494	1.702	2.854
19	0.406	0.116	0.015	0.400	0.006	0.403	0.475	1.754	3.026
20	0.444	0.129	0.009	0.353	0.003	0.356	0.456	1.806	3.207
21	0.475	0.142	0.005	0.308	0.002	0.310	0.439	1.860	3.400
22	0.506	0.156	0.003	0.264	0.001	0.265	0.422	1.916	3.604
23	0.539	0.171	0.001	0.223	0.000	0.224	0.406	1.974	3.820
24	0.575	0.186	0.001	0.185	0.000	0.185	0.390	2.033	4.049
25	0.616	0.203	0.000	0.150	0.000	0.151	0.375	2.094	4.292
26	0.661	0.220	0.000	0.120	0.000	0.120	0.361	2.157	4.549
27	0.713	0.238	0.000	0.094	0.000	0.094	0.347	2.221	4.822
28	0.773	0.257	0.000	0.071	0.000	0.071	0.333	2.288	5.112
29	0.841	0.276	0.000	0.053	0.000	0.053	0.321	2.357	5.418
30	0.918	0.297	0.000	0.038	0.000	0.038	0.308	2.427	5.743
31	1.000	0.317	0.000	0.027	0.000	0.027	0.296	2.500	6.088
32	-	0.339	-	0.018	-	0.018	0.285	2.575	6.453
33	-	0.361	-	0.012	-	0.012	0.274	2.652	6.841
34	-	0.384	-	0.008	-	0.008	0.264	2.732	7.251
35	-	0.405	-	0.005	-	0.005	0.253	2.814	7.686
36	-	0.425	-	0.003	-	0.003	0.244	2.898	8.147
37	-	0.444	-	0.002	-	0.002	0.234	2.985	8.636
38	-	0.464	-	0.001	-	0.001	0.225	3.075	9.154
39	-	0.482	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.495	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	1.000	-	0.000	-	0.000	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	42	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	8/1/1994	
(15)	**DATE OF FILING**	11/22/1995	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	75	M
(17)	**CLAIMANT 2 (y)**	74	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.62	7.09
(19)	APV FOR CLAIMANT 2	19.54	13.64
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.29	6.17
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	13.58	8.40
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	184,031	132,473
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.143	8.159
(29)	APV OF MEDICAL BENEFIT	60,860	48,952

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.086	0.020	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	0.023	0.914	0.980	0.895	0.103	0.962	1.030	1.060
2	0.102	0.025	0.828	0.957	0.793	0.200	0.925	1.061	1.124
3	0.111	0.028	0.743	0.933	0.694	0.289	0.889	1.093	1.191
4	0.121	0.032	0.661	0.907	0.599	0.369	0.855	1.126	1.262
5	0.131	0.035	0.581	0.878	0.510	0.439	0.822	1.159	1.338
6	0.141	0.039	0.505	0.847	0.428	0.497	0.790	1.194	1.419
7	0.151	0.044	0.434	0.814	0.353	0.542	0.760	1.230	1.504
8	0.162	0.049	0.368	0.778	0.286	0.573	0.731	1.267	1.594
9	0.173	0.055	0.309	0.740	0.228	0.592	0.703	1.305	1.689
10	0.186	0.061	0.255	0.699	0.178	0.597	0.676	1.344	1.791
11	0.201	0.068	0.208	0.656	0.136	0.591	0.650	1.384	1.898
12	0.218	0.075	0.166	0.612	0.101	0.575	0.625	1.426	2.012
13	0.237	0.084	0.130	0.566	0.073	0.549	0.601	1.469	2.133
14	0.258	0.094	0.099	0.518	0.051	0.515	0.577	1.513	2.261
15	0.282	0.105	0.073	0.470	0.034	0.474	0.555	1.558	2.397
16	0.309	0.116	0.053	0.420	0.022	0.429	0.534	1.605	2.540
17	0.339	0.129	0.036	0.372	0.014	0.381	0.513	1.653	2.693
18	0.371	0.142	0.024	0.324	0.008	0.332	0.494	1.702	2.854
19	0.406	0.156	0.015	0.278	0.004	0.285	0.475	1.754	3.026
20	0.444	0.171	0.009	0.234	0.002	0.239	0.456	1.806	3.207
21	0.475	0.186	0.005	0.194	0.001	0.198	0.439	1.860	3.400
22	0.506	0.203	0.003	0.158	0.000	0.160	0.422	1.916	3.604
23	0.539	0.220	0.001	0.126	0.000	0.127	0.406	1.974	3.820
24	0.575	0.238	0.001	0.098	0.000	0.099	0.390	2.033	4.049
25	0.616	0.257	0.000	0.075	0.000	0.075	0.375	2.094	4.292
26	0.661	0.276	0.000	0.056	0.000	0.056	0.361	2.157	4.549
27	0.713	0.297	0.000	0.040	0.000	0.040	0.347	2.221	4.822
28	0.773	0.317	0.000	0.028	0.000	0.028	0.333	2.288	5.112
29	0.841	0.339	0.000	0.019	0.000	0.019	0.321	2.357	5.418
30	0.918	0.361	0.000	0.013	0.000	0.013	0.308	2.427	5.743
31	1.000	0.384	0.000	0.008	0.000	0.008	0.296	2.500	6.088
32	-	0.405	-	0.005	-	0.005	0.285	2.575	6.453
33	-	0.425	-	0.003	-	0.003	0.274	2.652	6.841
34	-	0.444	-	0.002	-	0.002	0.264	2.732	7.251
35	-	0.464	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.482	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.495	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	1.000	-	0.000	-	0.000	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	43		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/1/1996		
(15)	**DATE OF FILING**	4/16/1996		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	69	M	
(17)	**CLAIMANT 2 (y)**	67	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	12.33	9.47
(19)	APV FOR CLAIMANT 2	29.12	18.10
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.76	8.50
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	19.93	10.56
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,260	11,260
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	270,810	174,997
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000
(28)	APV FOR $1 OF MEDICAL BENEFIT	15.437	11.437
(29)	APV OF MEDICAL BENEFIT	92,622	68,619

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	0.011	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.059	0.012	0.945	0.989	0.935	0.064	0.962	1.030	1.060
2	0.064	0.013	0.889	0.978	0.869	0.128	0.925	1.061	1.124
3	0.069	0.014	0.832	0.965	0.803	0.191	0.889	1.093	1.191
4	0.074	0.015	0.775	0.952	0.738	0.251	0.855	1.126	1.262
5	0.080	0.017	0.718	0.938	0.673	0.309	0.822	1.159	1.338
6	0.086	0.018	0.661	0.922	0.609	0.364	0.790	1.194	1.419
7	0.094	0.020	0.604	0.905	0.547	0.416	0.760	1.230	1.504
8	0.102	0.023	0.547	0.887	0.485	0.464	0.731	1.267	1.594
9	0.111	0.025	0.491	0.867	0.426	0.506	0.703	1.305	1.689
10	0.121	0.028	0.437	0.845	0.369	0.544	0.676	1.344	1.791
11	0.131	0.032	0.384	0.821	0.315	0.575	0.650	1.384	1.898
12	0.141	0.035	0.334	0.795	0.265	0.598	0.625	1.426	2.012
13	0.151	0.039	0.287	0.767	0.220	0.614	0.601	1.469	2.133
14	0.162	0.044	0.243	0.736	0.179	0.621	0.577	1.513	2.261
15	0.173	0.049	0.204	0.704	0.144	0.621	0.555	1.558	2.397
16	0.186	0.055	0.169	0.669	0.113	0.612	0.534	1.605	2.540
17	0.201	0.061	0.137	0.633	0.087	0.596	0.513	1.653	2.693
18	0.218	0.068	0.110	0.594	0.065	0.574	0.494	1.702	2.854
19	0.237	0.075	0.086	0.554	0.047	0.545	0.475	1.754	3.026
20	0.258	0.084	0.065	0.512	0.033	0.511	0.456	1.806	3.207
21	0.282	0.094	0.048	0.469	0.023	0.472	0.439	1.860	3.400
22	0.309	0.105	0.035	0.425	0.015	0.430	0.422	1.916	3.604
23	0.339	0.116	0.024	0.381	0.009	0.386	0.406	1.974	3.820
24	0.371	0.129	0.016	0.336	0.005	0.342	0.390	2.033	4.049
25	0.406	0.142	0.010	0.293	0.003	0.297	0.375	2.094	4.292
26	0.444	0.156	0.006	0.251	0.001	0.254	0.361	2.157	4.549
27	0.475	0.171	0.003	0.212	0.001	0.214	0.347	2.221	4.822
28	0.506	0.186	0.002	0.176	0.000	0.177	0.333	2.288	5.112
29	0.539	0.203	0.001	0.143	0.000	0.144	0.321	2.357	5.418
30	0.575	0.220	0.000	0.114	0.000	0.115	0.308	2.427	5.743
31	0.616	0.238	0.000	0.089	0.000	0.089	0.296	2.500	6.088
32	0.661	0.257	0.000	0.068	0.000	0.068	0.285	2.575	6.453
33	0.713	0.276	0.000	0.051	0.000	0.051	0.274	2.652	6.841
34	0.773	0.297	0.000	0.037	0.000	0.037	0.264	2.732	7.251
35	0.841	0.317	0.000	0.026	0.000	0.026	0.253	2.814	7.686
36	0.918	0.339	0.000	0.018	0.000	0.018	0.244	2.898	8.147
37	1.000	0.361	0.000	0.012	0.000	0.012	0.234	2.985	8.636
38	-	0.384	-	0.007	-	0.007	0.225	3.075	9.154
39	-	0.405	-	0.005	-	0.005	0.217	3.167	9.704
40	-	0.425	-	0.003	-	0.003	0.208	3.262	10.286
41	-	0.444	-	0.002	-	0.002	0.200	3.360	10.903
42	-	0.464	-	0.001	-	0.001	0.193	3.461	11.557
43	-	0.482	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.495	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	1.000	-	0.000	-	0.000	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	44		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 2		
(14)	**DATE OF INJURY**	10/11/2001		
(15)	**DATE OF FILING**	11/29/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	34	M	
(17)	**CLAIMANT 2 (y)**	55	F	
		NOMINAL	**DISCOUNTED**	
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1	72.08	30.67	
(19)	APV FOR CLAIMANT 2	52.86	26.29	
(20)	APV FOR BOTH CLAIMANTS ALIVE	43.77	23.44	
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	37.40	10.09	
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	13,136	13,136	
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,507	7,507	
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	855,703	383,568	
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60	
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20	
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,000	6,000	
(28)	APV FOR $1 OF MEDICAL BENEFIT	161.819	55.755	
(29)	APV OF MEDICAL BENEFIT	970,913	334,528	

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.003	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.003	0.003	0.997	0.998	0.995	0.005	0.962	1.030	1.060
2	0.003	0.003	0.995	0.995	0.990	0.010	0.925	1.061	1.124
3	0.003	0.003	0.992	0.992	0.985	0.015	0.889	1.093	1.191
4	0.003	0.004	0.990	0.989	0.979	0.021	0.855	1.126	1.262
5	0.003	0.004	0.987	0.985	0.972	0.028	0.822	1.159	1.338
6	0.003	0.005	0.984	0.981	0.965	0.035	0.790	1.194	1.419
7	0.004	0.006	0.981	0.976	0.957	0.043	0.760	1.230	1.504
8	0.004	0.007	0.977	0.970	0.948	0.052	0.731	1.267	1.594
9	0.005	0.008	0.973	0.964	0.937	0.062	0.703	1.305	1.689
10	0.006	0.009	0.968	0.956	0.926	0.073	0.676	1.344	1.791
11	0.006	0.010	0.963	0.948	0.913	0.085	0.650	1.384	1.898
12	0.007	0.011	0.957	0.939	0.898	0.099	0.625	1.426	2.012
13	0.007	0.012	0.950	0.929	0.883	0.114	0.601	1.469	2.133
14	0.007	0.013	0.944	0.918	0.866	0.129	0.577	1.513	2.261
15	0.008	0.014	0.937	0.906	0.849	0.145	0.555	1.558	2.397
16	0.008	0.015	0.930	0.894	0.831	0.162	0.534	1.605	2.540
17	0.009	0.017	0.922	0.880	0.812	0.179	0.513	1.653	2.693
18	0.010	0.018	0.913	0.866	0.791	0.198	0.494	1.702	2.854
19	0.012	0.020	0.904	0.850	0.768	0.217	0.475	1.754	3.026
20	0.013	0.023	0.893	0.833	0.744	0.238	0.456	1.806	3.207
21	0.014	0.025	0.882	0.814	0.717	0.260	0.439	1.860	3.400
22	0.015	0.028	0.869	0.793	0.689	0.284	0.422	1.916	3.604
23	0.017	0.032	0.856	0.771	0.660	0.307	0.406	1.974	3.820
24	0.018	0.035	0.842	0.746	0.628	0.332	0.390	2.033	4.049
25	0.020	0.039	0.826	0.720	0.595	0.357	0.375	2.094	4.292
26	0.022	0.044	0.810	0.691	0.560	0.381	0.361	2.157	4.549
27	0.024	0.049	0.792	0.661	0.523	0.406	0.347	2.221	4.822
28	0.027	0.055	0.773	0.628	0.486	0.430	0.333	2.288	5.112
29	0.030	0.061	0.752	0.594	0.447	0.453	0.321	2.357	5.418
30	0.033	0.068	0.730	0.558	0.407	0.473	0.308	2.427	5.743
31	0.037	0.075	0.706	0.520	0.367	0.492	0.296	2.500	6.088
32	0.041	0.084	0.680	0.481	0.327	0.507	0.285	2.575	6.453
33	0.046	0.094	0.652	0.440	0.287	0.518	0.274	2.652	6.841
34	0.050	0.105	0.622	0.399	0.248	0.525	0.264	2.732	7.251
35	0.055	0.116	0.591	0.357	0.211	0.526	0.253	2.814	7.686
36	0.059	0.129	0.559	0.316	0.176	0.522	0.244	2.898	8.147
37	0.064	0.142	0.526	0.275	0.145	0.511	0.234	2.985	8.636
38	0.069	0.156	0.492	0.236	0.116	0.496	0.225	3.075	9.154
39	0.074	0.171	0.458	0.199	0.091	0.475	0.217	3.167	9.704
40	0.080	0.186	0.424	0.165	0.070	0.449	0.208	3.262	10.286
41	0.086	0.203	0.391	0.134	0.053	0.420	0.200	3.360	10.903
42	0.094	0.220	0.357	0.107	0.038	0.388	0.193	3.461	11.557
43	0.102	0.238	0.323	0.084	0.027	0.353	0.185	3.565	12.250
44	0.111	0.257	0.290	0.064	0.019	0.317	0.178	3.671	12.985
45	0.121	0.276	0.258	0.047	0.012	0.281	0.171	3.782	13.765
46	0.131	0.297	0.227	0.034	0.008	0.246	0.165	3.895	14.590
47	0.141	0.317	0.197	0.024	0.005	0.212	0.158	4.012	15.466
48	0.151	0.339	0.169	0.016	0.003	0.180	0.152	4.132	16.394
49	0.162	0.361	0.144	0.011	0.002	0.152	0.146	4.256	17.378
50	0.173	0.384	0.121	0.007	0.001	0.126	0.141	4.384	18.420
51	0.186	0.405	0.100	0.004	0.000	0.103	0.135	4.515	19.525
52	0.201	0.425	0.081	0.003	0.000	0.083	0.130	4.651	20.697
53	0.218	0.444	0.065	0.001	0.000	0.066	0.125	4.790	21.939
54	0.237	0.464	0.051	0.001	0.000	0.051	0.120	4.934	23.255
55	0.258	0.482	0.039	0.000	0.000	0.039	0.116	5.082	24.650
56	0.282	0.495	0.029	0.000	0.000	0.029	0.111	5.235	26.129
57	0.309	0.500	0.021	0.000	0.000	0.021	0.107	5.392	27.697
58	0.339	0.500	0.014	0.000	0.000	0.014	0.103	5.553	29.359
59	0.371	0.500	0.009	0.000	0.000	0.009	0.099	5.720	31.120
60	0.406	0.500	0.006	0.000	0.000	0.006	0.095	5.892	32.988
61	0.444	0.500	0.004	0.000	0.000	0.004	0.091	6.068	34.967
62	0.475	0.500	0.002	0.000	0.000	0.002	0.088	6.250	37.065
63	0.506	0.500	0.001	0.000	0.000	0.001	0.085	6.438	39.289
64	0.539	0.500	0.001	0.000	0.000	0.001	0.081	6.631	41.646
65	0.575	1.000	0.000	0.000	0.000	0.000	0.078	6.830	44.145
66	0.616	-	0.000	-	-	0.000	0.075	7.035	46.794
67	0.661	-	0.000	-	-	0.000	0.072	7.246	49.601
68	0.713	-	0.000	-	-	0.000	0.069	7.463	52.577
69	0.773	-	0.000	-	-	0.000	0.067	7.687	55.732
70	0.841	-	0.000	-	-	0.000	0.064	7.918	59.076
71	0.918	-	0.000	-	-	0.000	0.062	8.155	62.620
72	1.000	-	0.000	-	-	0.000	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (4) * 12
(23) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	45	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	12/1/1999	
(15)	**DATE OF FILING**	9/6/2000	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	79	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	14.22	10.70
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	14.22	10.70
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	106,752	80,351
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.035	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.039	-	0.965	1.000	0.965	0.035	0.962	1.030	1.060
2	0.044	-	0.927	1.000	0.927	0.073	0.925	1.061	1.124
3	0.049	-	0.886	1.000	0.886	0.114	0.889	1.093	1.191
4	0.055	-	0.842	1.000	0.842	0.158	0.855	1.126	1.262
5	0.061	-	0.796	1.000	0.796	0.204	0.822	1.159	1.338
6	0.068	-	0.748	1.000	0.748	0.252	0.790	1.194	1.419
7	0.075	-	0.697	1.000	0.697	0.303	0.760	1.230	1.504
8	0.084	-	0.644	1.000	0.644	0.356	0.731	1.267	1.594
9	0.094	-	0.590	1.000	0.590	0.410	0.703	1.305	1.689
10	0.105	-	0.535	1.000	0.535	0.465	0.676	1.344	1.791
11	0.116	-	0.479	1.000	0.479	0.521	0.650	1.384	1.898
12	0.129	-	0.423	1.000	0.423	0.577	0.625	1.426	2.012
13	0.142	-	0.369	1.000	0.369	0.631	0.601	1.469	2.133
14	0.156	-	0.316	1.000	0.316	0.684	0.577	1.513	2.261
15	0.171	-	0.267	1.000	0.267	0.733	0.555	1.558	2.397
16	0.186	-	0.222	1.000	0.222	0.778	0.534	1.605	2.540
17	0.203	-	0.180	1.000	0.180	0.820	0.513	1.653	2.693
18	0.220	-	0.144	1.000	0.144	0.856	0.494	1.702	2.854
19	0.238	-	0.112	1.000	0.112	0.888	0.475	1.754	3.026
20	0.257	-	0.086	1.000	0.086	0.914	0.456	1.806	3.207
21	0.276	-	0.064	1.000	0.064	0.936	0.439	1.860	3.400
22	0.297	-	0.046	1.000	0.046	0.954	0.422	1.916	3.604
23	0.317	-	0.032	1.000	0.032	0.968	0.406	1.974	3.820
24	0.339	-	0.022	1.000	0.022	0.978	0.390	2.033	4.049
25	0.361	-	0.015	1.000	0.015	0.985	0.375	2.094	4.292
26	0.384	-	0.009	1.000	0.009	0.991	0.361	2.157	4.549
27	0.405	-	0.006	1.000	0.006	0.994	0.347	2.221	4.822
28	0.425	-	0.003	1.000	0.003	0.997	0.333	2.288	5.112
29	0.444	-	0.002	1.000	0.002	0.998	0.321	2.357	5.418
30	0.464	-	0.001	1.000	0.001	0.999	0.308	2.427	5.743
31	0.482	-	0.001	1.000	0.001	0.999	0.296	2.500	6.088
32	0.495	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	1.000	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	46		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	12/1/2000		
(15)	**DATE OF FILING**	1/23/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	71	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	23.35	15.53
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	23.35	15.53
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	175,258	116,575
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.015	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.017	-	0.985	1.000	0.985	0.015	0.962	1.030	1.060
2	0.018	-	0.969	1.000	0.969	0.031	0.925	1.061	1.124
3	0.020	-	0.951	1.000	0.951	0.049	0.889	1.093	1.191
4	0.023	-	0.932	1.000	0.932	0.068	0.855	1.126	1.262
5	0.025	-	0.910	1.000	0.910	0.090	0.822	1.159	1.338
6	0.028	-	0.887	1.000	0.887	0.113	0.790	1.194	1.419
7	0.032	-	0.862	1.000	0.862	0.138	0.760	1.230	1.504
8	0.035	-	0.835	1.000	0.835	0.165	0.731	1.267	1.594
9	0.039	-	0.805	1.000	0.805	0.195	0.703	1.305	1.689
10	0.044	-	0.774	1.000	0.774	0.226	0.676	1.344	1.791
11	0.049	-	0.740	1.000	0.740	0.260	0.650	1.384	1.898
12	0.055	-	0.703	1.000	0.703	0.297	0.625	1.426	2.012
13	0.061	-	0.665	1.000	0.665	0.335	0.601	1.469	2.133
14	0.068	-	0.624	1.000	0.624	0.376	0.577	1.513	2.261
15	0.075	-	0.582	1.000	0.582	0.418	0.555	1.558	2.397
16	0.084	-	0.538	1.000	0.538	0.462	0.534	1.605	2.540
17	0.094	-	0.493	1.000	0.493	0.507	0.513	1.653	2.693
18	0.105	-	0.447	1.000	0.447	0.553	0.494	1.702	2.854
19	0.116	-	0.400	1.000	0.400	0.600	0.475	1.754	3.026
20	0.129	-	0.353	1.000	0.353	0.647	0.456	1.806	3.207
21	0.142	-	0.308	1.000	0.308	0.692	0.439	1.860	3.400
22	0.156	-	0.264	1.000	0.264	0.736	0.422	1.916	3.604
23	0.171	-	0.223	1.000	0.223	0.777	0.406	1.974	3.820
24	0.186	-	0.185	1.000	0.185	0.815	0.390	2.033	4.049
25	0.203	-	0.150	1.000	0.150	0.850	0.375	2.094	4.292
26	0.220	-	0.120	1.000	0.120	0.880	0.361	2.157	4.549
27	0.238	-	0.094	1.000	0.094	0.906	0.347	2.221	4.822
28	0.257	-	0.071	1.000	0.071	0.929	0.333	2.288	5.112
29	0.276	-	0.053	1.000	0.053	0.947	0.321	2.357	5.418
30	0.297	-	0.038	1.000	0.038	0.962	0.308	2.427	5.743
31	0.317	-	0.027	1.000	0.027	0.973	0.296	2.500	6.088
32	0.339	-	0.018	1.000	0.018	0.982	0.285	2.575	6.453
33	0.361	-	0.012	1.000	0.012	0.988	0.274	2.652	6.841
34	0.384	-	0.008	1.000	0.008	0.992	0.264	2.732	7.251
35	0.405	-	0.005	1.000	0.005	0.995	0.253	2.814	7.686
36	0.425	-	0.003	1.000	0.003	0.997	0.244	2.898	8.147
37	0.444	-	0.002	1.000	0.002	0.998	0.234	2.985	8.636
38	0.464	-	0.001	1.000	0.001	0.999	0.225	3.075	9.154
39	0.482	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.495	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	1.000	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	47		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/26/2005		
(15)	**DATE OF FILING**	11/22/2005		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	88	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.58	6.39
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.58	6.39
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	56,902	47,944
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.094	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.105	-	0.906	1.000	0.906	0.094	0.962	1.030	1.060
2	0.116	-	0.811	1.000	0.811	0.189	0.925	1.061	1.124
3	0.129	-	0.717	1.000	0.717	0.283	0.889	1.093	1.191
4	0.142	-	0.625	1.000	0.625	0.375	0.855	1.126	1.262
5	0.156	-	0.536	1.000	0.536	0.464	0.822	1.159	1.338
6	0.171	-	0.452	1.000	0.452	0.548	0.790	1.194	1.419
7	0.186	-	0.375	1.000	0.375	0.625	0.760	1.230	1.504
8	0.203	-	0.305	1.000	0.305	0.695	0.731	1.267	1.594
9	0.220	-	0.244	1.000	0.244	0.756	0.703	1.305	1.689
10	0.238	-	0.190	1.000	0.190	0.810	0.676	1.344	1.791
11	0.257	-	0.145	1.000	0.145	0.855	0.650	1.384	1.898
12	0.276	-	0.108	1.000	0.108	0.892	0.625	1.426	2.012
13	0.297	-	0.078	1.000	0.078	0.922	0.601	1.469	2.133
14	0.317	-	0.055	1.000	0.055	0.945	0.577	1.513	2.261
15	0.339	-	0.037	1.000	0.037	0.963	0.555	1.558	2.397
16	0.361	-	0.025	1.000	0.025	0.975	0.534	1.605	2.540
17	0.384	-	0.016	1.000	0.016	0.984	0.513	1.653	2.693
18	0.405	-	0.010	1.000	0.010	0.990	0.494	1.702	2.854
19	0.425	-	0.006	1.000	0.006	0.994	0.475	1.754	3.026
20	0.444	-	0.003	1.000	0.003	0.997	0.456	1.806	3.207
21	0.464	-	0.002	1.000	0.002	0.998	0.439	1.860	3.400
22	0.482	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.495	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	1.000	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
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99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	48		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/30/2008		
(15)	**DATE OF FILING**	5/26/2009		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	62	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	37.72	21.43
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	37.72	21.43
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	283,161	160,886
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.006	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.007	-	0.994	1.000	0.994	0.006	0.962	1.030	1.060
2	0.008	-	0.988	1.000	0.988	0.012	0.925	1.061	1.124
3	0.009	-	0.980	1.000	0.980	0.020	0.889	1.093	1.191
4	0.010	-	0.972	1.000	0.972	0.028	0.855	1.126	1.262
5	0.011	-	0.962	1.000	0.962	0.038	0.822	1.159	1.338
6	0.012	-	0.952	1.000	0.952	0.048	0.790	1.194	1.419
7	0.013	-	0.941	1.000	0.941	0.059	0.760	1.230	1.504
8	0.014	-	0.929	1.000	0.929	0.071	0.731	1.267	1.594
9	0.015	-	0.916	1.000	0.916	0.084	0.703	1.305	1.689
10	0.017	-	0.902	1.000	0.902	0.098	0.676	1.344	1.791
11	0.018	-	0.887	1.000	0.887	0.113	0.650	1.384	1.898
12	0.020	-	0.871	1.000	0.871	0.129	0.625	1.426	2.012
13	0.023	-	0.853	1.000	0.853	0.147	0.601	1.469	2.133
14	0.025	-	0.834	1.000	0.834	0.166	0.577	1.513	2.261
15	0.028	-	0.813	1.000	0.813	0.187	0.555	1.558	2.397
16	0.032	-	0.790	1.000	0.790	0.210	0.534	1.605	2.540
17	0.035	-	0.765	1.000	0.765	0.235	0.513	1.653	2.693
18	0.039	-	0.738	1.000	0.738	0.262	0.494	1.702	2.854
19	0.044	-	0.709	1.000	0.709	0.291	0.475	1.754	3.026
20	0.049	-	0.677	1.000	0.677	0.323	0.456	1.806	3.207
21	0.055	-	0.644	1.000	0.644	0.356	0.439	1.860	3.400
22	0.061	-	0.609	1.000	0.609	0.391	0.422	1.916	3.604
23	0.068	-	0.572	1.000	0.572	0.428	0.406	1.974	3.820
24	0.075	-	0.533	1.000	0.533	0.467	0.390	2.033	4.049
25	0.084	-	0.493	1.000	0.493	0.507	0.375	2.094	4.292
26	0.094	-	0.451	1.000	0.451	0.549	0.361	2.157	4.549
27	0.105	-	0.409	1.000	0.409	0.591	0.347	2.221	4.822
28	0.116	-	0.366	1.000	0.366	0.634	0.333	2.288	5.112
29	0.129	-	0.324	1.000	0.324	0.676	0.321	2.357	5.418
30	0.142	-	0.282	1.000	0.282	0.718	0.308	2.427	5.743
31	0.156	-	0.242	1.000	0.242	0.758	0.296	2.500	6.088
32	0.171	-	0.204	1.000	0.204	0.796	0.285	2.575	6.453
33	0.186	-	0.169	1.000	0.169	0.831	0.274	2.652	6.841
34	0.203	-	0.138	1.000	0.138	0.862	0.264	2.732	7.251
35	0.220	-	0.110	1.000	0.110	0.890	0.253	2.814	7.686
36	0.238	-	0.086	1.000	0.086	0.914	0.244	2.898	8.147
37	0.257	-	0.065	1.000	0.065	0.935	0.234	2.985	8.636
38	0.276	-	0.049	1.000	0.049	0.951	0.225	3.075	9.154
39	0.297	-	0.035	1.000	0.035	0.965	0.217	3.167	9.704
40	0.317	-	0.025	1.000	0.025	0.975	0.208	3.262	10.286
41	0.339	-	0.017	1.000	0.017	0.983	0.200	3.360	10.903
42	0.361	-	0.011	1.000	0.011	0.989	0.193	3.461	11.557
43	0.384	-	0.007	1.000	0.007	0.993	0.185	3.565	12.250
44	0.405	-	0.004	1.000	0.004	0.996	0.178	3.671	12.985
45	0.425	-	0.003	1.000	0.003	0.997	0.171	3.782	13.765
46	0.444	-	0.002	1.000	0.002	0.998	0.165	3.895	14.590
47	0.464	-	0.001	1.000	0.001	0.999	0.158	4.012	15.466
48	0.482	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.495	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	0.500	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	0.500	-	0.000	1.000	0.000	1.000	0.135	4.515	19.525
52	0.500	-	0.000	1.000	0.000	1.000	0.130	4.651	20.697
53	0.500	-	0.000	1.000	0.000	1.000	0.125	4.790	21.939
54	0.500	-	0.000	1.000	0.000	1.000	0.120	4.934	23.255
55	0.500	-	0.000	1.000	0.000	1.000	0.116	5.082	24.650
56	0.500	-	0.000	1.000	0.000	1.000	0.111	5.235	26.129
57	0.500	-	0.000	1.000	0.000	1.000	0.107	5.392	27.697
58	1.000	-	0.000	1.000	0.000	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
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75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
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(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	49		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/1/1976		
(15)	**DATE OF FILING**	8/1/1976		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	96	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.33	3.92
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.33	3.92
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	32,520	29,403
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.203	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.220	-	0.797	1.000	0.797	0.203	0.962	1.030	1.060
2	0.238	-	0.622	1.000	0.622	0.378	0.925	1.061	1.124
3	0.257	-	0.474	1.000	0.474	0.526	0.889	1.093	1.191
4	0.276	-	0.353	1.000	0.353	0.647	0.855	1.126	1.262
5	0.297	-	0.255	1.000	0.255	0.745	0.822	1.159	1.338
6	0.317	-	0.179	1.000	0.179	0.821	0.790	1.194	1.419
7	0.339	-	0.123	1.000	0.123	0.877	0.760	1.230	1.504
8	0.361	-	0.081	1.000	0.081	0.919	0.731	1.267	1.594
9	0.384	-	0.052	1.000	0.052	0.948	0.703	1.305	1.689
10	0.405	-	0.032	1.000	0.032	0.968	0.676	1.344	1.791
11	0.425	-	0.019	1.000	0.019	0.981	0.650	1.384	1.898
12	0.444	-	0.011	1.000	0.011	0.989	0.625	1.426	2.012
13	0.464	-	0.006	1.000	0.006	0.994	0.601	1.469	2.133
14	0.482	-	0.003	1.000	0.003	0.997	0.577	1.513	2.261
15	0.495	-	0.002	1.000	0.002	0.998	0.555	1.558	2.397
16	0.500	-	0.001	1.000	0.001	0.999	0.534	1.605	2.540
17	0.500	-	0.000	1.000	0.000	1.000	0.513	1.653	2.693
18	0.500	-	0.000	1.000	0.000	1.000	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	1.000	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	50		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/1/1981		
(15)	**DATE OF FILING**	3/22/1982		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	82	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.61	9.11
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.61	9.11
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	87,191	68,381
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.049	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	-	0.951	1.000	0.951	0.049	0.962	1.030	1.060
2	0.061	-	0.899	1.000	0.899	0.101	0.925	1.061	1.124
3	0.068	-	0.844	1.000	0.844	0.156	0.889	1.093	1.191
4	0.075	-	0.787	1.000	0.787	0.213	0.855	1.126	1.262
5	0.084	-	0.727	1.000	0.727	0.273	0.822	1.159	1.338
6	0.094	-	0.666	1.000	0.666	0.334	0.790	1.194	1.419
7	0.105	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.116	-	0.541	1.000	0.541	0.459	0.731	1.267	1.594
9	0.129	-	0.478	1.000	0.478	0.522	0.703	1.305	1.689
10	0.142	-	0.416	1.000	0.416	0.584	0.676	1.344	1.791
11	0.156	-	0.357	1.000	0.357	0.643	0.650	1.384	1.898
12	0.171	-	0.301	1.000	0.301	0.699	0.625	1.426	2.012
13	0.186	-	0.250	1.000	0.250	0.750	0.601	1.469	2.133
14	0.203	-	0.203	1.000	0.203	0.797	0.577	1.513	2.261
15	0.220	-	0.162	1.000	0.162	0.838	0.555	1.558	2.397
16	0.238	-	0.127	1.000	0.127	0.873	0.534	1.605	2.540
17	0.257	-	0.097	1.000	0.097	0.903	0.513	1.653	2.693
18	0.276	-	0.072	1.000	0.072	0.928	0.494	1.702	2.854
19	0.297	-	0.052	1.000	0.052	0.948	0.475	1.754	3.026
20	0.317	-	0.037	1.000	0.037	0.963	0.456	1.806	3.207
21	0.339	-	0.025	1.000	0.025	0.975	0.439	1.860	3.400
22	0.361	-	0.016	1.000	0.016	0.984	0.422	1.916	3.604
23	0.384	-	0.011	1.000	0.011	0.989	0.406	1.974	3.820
24	0.405	-	0.006	1.000	0.006	0.994	0.390	2.033	4.049
25	0.425	-	0.004	1.000	0.004	0.996	0.375	2.094	4.292
26	0.444	-	0.002	1.000	0.002	0.998	0.361	2.157	4.549
27	0.464	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.482	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.495	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	1.000	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	51		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1981		
(15)	**DATE OF FILING**	3/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	52,921	45,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
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75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
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116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
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120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	52		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/1/1978		
(15)	**DATE OF FILING**	6/8/1979		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	53		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**		4/1/1978	
(15)	**DATE OF FILING**		4/8/1978	
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	48	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	71.91	31.07
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	71.91	31.07
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	539,834	233,219
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.001	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.001	-	0.999	1.000	0.999	0.001	0.962	1.030	1.060
2	0.001	-	0.997	1.000	0.997	0.003	0.925	1.061	1.124
3	0.002	-	0.996	1.000	0.996	0.004	0.889	1.093	1.191
4	0.002	-	0.994	1.000	0.994	0.006	0.855	1.126	1.262
5	0.002	-	0.993	1.000	0.993	0.007	0.822	1.159	1.338
6	0.002	-	0.991	1.000	0.991	0.009	0.790	1.194	1.419
7	0.002	-	0.989	1.000	0.989	0.011	0.760	1.230	1.504
8	0.003	-	0.987	1.000	0.987	0.013	0.731	1.267	1.594
9	0.003	-	0.984	1.000	0.984	0.016	0.703	1.305	1.689
10	0.003	-	0.981	1.000	0.981	0.019	0.676	1.344	1.791
11	0.004	-	0.978	1.000	0.978	0.022	0.650	1.384	1.898
12	0.004	-	0.974	1.000	0.974	0.026	0.625	1.426	2.012
13	0.005	-	0.970	1.000	0.970	0.030	0.601	1.469	2.133
14	0.006	-	0.965	1.000	0.965	0.035	0.577	1.513	2.261
15	0.007	-	0.959	1.000	0.959	0.041	0.555	1.558	2.397
16	0.008	-	0.953	1.000	0.953	0.047	0.534	1.605	2.540
17	0.009	-	0.946	1.000	0.946	0.054	0.513	1.653	2.693
18	0.010	-	0.937	1.000	0.937	0.063	0.494	1.702	2.854
19	0.011	-	0.928	1.000	0.928	0.072	0.475	1.754	3.026
20	0.012	-	0.918	1.000	0.918	0.082	0.456	1.806	3.207
21	0.013	-	0.907	1.000	0.907	0.093	0.439	1.860	3.400
22	0.014	-	0.896	1.000	0.896	0.104	0.422	1.916	3.604
23	0.015	-	0.884	1.000	0.884	0.116	0.406	1.974	3.820
24	0.017	-	0.870	1.000	0.870	0.130	0.390	2.033	4.049
25	0.018	-	0.856	1.000	0.856	0.144	0.375	2.094	4.292
26	0.020	-	0.840	1.000	0.840	0.160	0.361	2.157	4.549
27	0.023	-	0.823	1.000	0.823	0.177	0.347	2.221	4.822
28	0.025	-	0.805	1.000	0.805	0.195	0.333	2.288	5.112
29	0.028	-	0.784	1.000	0.784	0.216	0.321	2.357	5.418
30	0.032	-	0.762	1.000	0.762	0.238	0.308	2.427	5.743
31	0.035	-	0.738	1.000	0.738	0.262	0.296	2.500	6.088
32	0.039	-	0.712	1.000	0.712	0.288	0.285	2.575	6.453
33	0.044	-	0.684	1.000	0.684	0.316	0.274	2.652	6.841
34	0.049	-	0.654	1.000	0.654	0.346	0.264	2.732	7.251
35	0.055	-	0.621	1.000	0.621	0.379	0.253	2.814	7.686
36	0.061	-	0.587	1.000	0.587	0.413	0.244	2.898	8.147
37	0.068	-	0.552	1.000	0.552	0.448	0.234	2.985	8.636
38	0.075	-	0.514	1.000	0.514	0.486	0.225	3.075	9.154
39	0.084	-	0.475	1.000	0.475	0.525	0.217	3.167	9.704
40	0.094	-	0.435	1.000	0.435	0.565	0.208	3.262	10.286
41	0.105	-	0.395	1.000	0.395	0.605	0.200	3.360	10.903
42	0.116	-	0.353	1.000	0.353	0.647	0.193	3.461	11.557
43	0.129	-	0.312	1.000	0.312	0.688	0.185	3.565	12.250
44	0.142	-	0.272	1.000	0.272	0.728	0.178	3.671	12.985
45	0.156	-	0.233	1.000	0.233	0.767	0.171	3.782	13.765
46	0.171	-	0.197	1.000	0.197	0.803	0.165	3.895	14.590
47	0.186	-	0.163	1.000	0.163	0.837	0.158	4.012	15.466
48	0.203	-	0.133	1.000	0.133	0.867	0.152	4.132	16.394
49	0.220	-	0.106	1.000	0.106	0.894	0.146	4.256	17.378
50	0.238	-	0.083	1.000	0.083	0.917	0.141	4.384	18.420
51	0.257	-	0.063	1.000	0.063	0.937	0.135	4.515	19.525
52	0.276	-	0.047	1.000	0.047	0.953	0.130	4.651	20.697
53	0.297	-	0.034	1.000	0.034	0.966	0.125	4.790	21.939
54	0.317	-	0.024	1.000	0.024	0.976	0.120	4.934	23.255
55	0.339	-	0.016	1.000	0.016	0.984	0.116	5.082	24.650
56	0.361	-	0.011	1.000	0.011	0.989	0.111	5.235	26.129
57	0.384	-	0.007	1.000	0.007	0.993	0.107	5.392	27.697
58	0.405	-	0.004	1.000	0.004	0.996	0.103	5.553	29.359
59	0.425	-	0.003	1.000	0.003	0.997	0.099	5.720	31.120
60	0.444	-	0.001	1.000	0.001	0.999	0.095	5.892	32.988
61	0.464	-	0.001	1.000	0.001	0.999	0.091	6.068	34.967
62	0.482	-	0.000	1.000	0.000	1.000	0.088	6.250	37.065
63	0.495	-	0.000	1.000	0.000	1.000	0.085	6.438	39.289
64	0.500	-	0.000	1.000	0.000	1.000	0.081	6.631	41.646
65	0.500	-	0.000	1.000	0.000	1.000	0.078	6.830	44.145
66	0.500	-	0.000	1.000	0.000	1.000	0.075	7.035	46.794
67	0.500	-	0.000	1.000	0.000	1.000	0.072	7.246	49.601
68	0.500	-	0.000	1.000	0.000	1.000	0.069	7.463	52.577
69	0.500	-	0.000	1.000	0.000	1.000	0.067	7.687	55.732
70	0.500	-	0.000	1.000	0.000	1.000	0.064	7.918	59.076
71	0.500	-	0.000	1.000	0.000	1.000	0.062	8.155	62.620
72	1.000	-	0.000	1.000	0.000	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	54		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	5/1/1979		
(15)	**DATE OF FILING**	5/18/1979		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	83	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.84	8.61
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.84	8.61
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	81,362	64,642
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.061	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.068	-	0.888	1.000	0.888	0.112	0.925	1.061	1.124
3	0.075	-	0.827	1.000	0.827	0.173	0.889	1.093	1.191
4	0.084	-	0.765	1.000	0.765	0.235	0.855	1.126	1.262
5	0.094	-	0.701	1.000	0.701	0.299	0.822	1.159	1.338
6	0.105	-	0.635	1.000	0.635	0.365	0.790	1.194	1.419
7	0.116	-	0.569	1.000	0.569	0.431	0.760	1.230	1.504
8	0.129	-	0.502	1.000	0.502	0.498	0.731	1.267	1.594
9	0.142	-	0.438	1.000	0.438	0.562	0.703	1.305	1.689
10	0.156	-	0.376	1.000	0.376	0.624	0.676	1.344	1.791
11	0.171	-	0.317	1.000	0.317	0.683	0.650	1.384	1.898
12	0.186	-	0.263	1.000	0.263	0.737	0.625	1.426	2.012
13	0.203	-	0.214	1.000	0.214	0.786	0.601	1.469	2.133
14	0.220	-	0.171	1.000	0.171	0.829	0.577	1.513	2.261
15	0.238	-	0.133	1.000	0.133	0.867	0.555	1.558	2.397
16	0.257	-	0.102	1.000	0.102	0.898	0.534	1.605	2.540
17	0.276	-	0.075	1.000	0.075	0.925	0.513	1.653	2.693
18	0.297	-	0.055	1.000	0.055	0.945	0.494	1.702	2.854
19	0.317	-	0.038	1.000	0.038	0.962	0.475	1.754	3.026
20	0.339	-	0.026	1.000	0.026	0.974	0.456	1.806	3.207
21	0.361	-	0.017	1.000	0.017	0.983	0.439	1.860	3.400
22	0.384	-	0.011	1.000	0.011	0.989	0.422	1.916	3.604
23	0.405	-	0.007	1.000	0.007	0.993	0.406	1.974	3.820
24	0.425	-	0.004	1.000	0.004	0.996	0.390	2.033	4.049
25	0.444	-	0.002	1.000	0.002	0.998	0.375	2.094	4.292
26	0.464	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.482	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.495	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
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86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
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95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	55		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	6/1/1980		
(15)	**DATE OF FILING**	11/23/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	52,921	45,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	56		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1980		
(15)	**DATE OF FILING**	12/4/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	84	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.11	8.13
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.11	8.13
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	75,865	61,038
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.061	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.068	-	0.939	1.000	0.939	0.061	0.962	1.030	1.060
2	0.075	-	0.875	1.000	0.875	0.125	0.925	1.061	1.124
3	0.084	-	0.809	1.000	0.809	0.191	0.889	1.093	1.191
4	0.094	-	0.741	1.000	0.741	0.259	0.855	1.126	1.262
5	0.105	-	0.672	1.000	0.672	0.328	0.822	1.159	1.338
6	0.116	-	0.602	1.000	0.602	0.398	0.790	1.194	1.419
7	0.129	-	0.532	1.000	0.532	0.468	0.760	1.230	1.504
8	0.142	-	0.463	1.000	0.463	0.537	0.731	1.267	1.594
9	0.156	-	0.397	1.000	0.397	0.603	0.703	1.305	1.689
10	0.171	-	0.335	1.000	0.335	0.665	0.676	1.344	1.791
11	0.186	-	0.278	1.000	0.278	0.722	0.650	1.384	1.898
12	0.203	-	0.226	1.000	0.226	0.774	0.625	1.426	2.012
13	0.220	-	0.181	1.000	0.181	0.819	0.601	1.469	2.133
14	0.238	-	0.141	1.000	0.141	0.859	0.577	1.513	2.261
15	0.257	-	0.107	1.000	0.107	0.893	0.555	1.558	2.397
16	0.276	-	0.080	1.000	0.080	0.920	0.534	1.605	2.540
17	0.297	-	0.058	1.000	0.058	0.942	0.513	1.653	2.693
18	0.317	-	0.041	1.000	0.041	0.959	0.494	1.702	2.854
19	0.339	-	0.028	1.000	0.028	0.972	0.475	1.754	3.026
20	0.361	-	0.018	1.000	0.018	0.982	0.456	1.806	3.207
21	0.384	-	0.012	1.000	0.012	0.988	0.439	1.860	3.400
22	0.405	-	0.007	1.000	0.007	0.993	0.422	1.916	3.604
23	0.425	-	0.004	1.000	0.004	0.996	0.406	1.974	3.820
24	0.444	-	0.002	1.000	0.002	0.998	0.390	2.033	4.049
25	0.464	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.482	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.495	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	57		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1979		
(15)	**DATE OF FILING**	12/11/1979		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	52,921	45,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	58		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	1/1/1979		
(15)	**DATE OF FILING**	1/25/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	82	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.61	9.11
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.61	9.11
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	87,191	68,381
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.049	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	-	0.951	1.000	0.951	0.049	0.962	1.030	1.060
2	0.061	-	0.899	1.000	0.899	0.101	0.925	1.061	1.124
3	0.068	-	0.844	1.000	0.844	0.156	0.889	1.093	1.191
4	0.075	-	0.787	1.000	0.787	0.213	0.855	1.126	1.262
5	0.084	-	0.727	1.000	0.727	0.273	0.822	1.159	1.338
6	0.094	-	0.666	1.000	0.666	0.334	0.790	1.194	1.419
7	0.105	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.116	-	0.541	1.000	0.541	0.459	0.731	1.267	1.594
9	0.129	-	0.478	1.000	0.478	0.522	0.703	1.305	1.689
10	0.142	-	0.416	1.000	0.416	0.584	0.676	1.344	1.791
11	0.156	-	0.357	1.000	0.357	0.643	0.650	1.384	1.898
12	0.171	-	0.301	1.000	0.301	0.699	0.625	1.426	2.012
13	0.186	-	0.250	1.000	0.250	0.750	0.601	1.469	2.133
14	0.203	-	0.203	1.000	0.203	0.797	0.577	1.513	2.261
15	0.220	-	0.162	1.000	0.162	0.838	0.555	1.558	2.397
16	0.238	-	0.127	1.000	0.127	0.873	0.534	1.605	2.540
17	0.257	-	0.097	1.000	0.097	0.903	0.513	1.653	2.693
18	0.276	-	0.072	1.000	0.072	0.928	0.494	1.702	2.854
19	0.297	-	0.052	1.000	0.052	0.948	0.475	1.754	3.026
20	0.317	-	0.037	1.000	0.037	0.963	0.456	1.806	3.207
21	0.339	-	0.025	1.000	0.025	0.975	0.439	1.860	3.400
22	0.361	-	0.016	1.000	0.016	0.984	0.422	1.916	3.604
23	0.384	-	0.011	1.000	0.011	0.989	0.406	1.974	3.820
24	0.405	-	0.006	1.000	0.006	0.994	0.390	2.033	4.049
25	0.425	-	0.004	1.000	0.004	0.996	0.375	2.094	4.292
26	0.444	-	0.002	1.000	0.002	0.998	0.361	2.157	4.549
27	0.464	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.482	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.495	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	1.000	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	59		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/1/1978		
(15)	**DATE OF FILING**	2/18/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	93	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.31	4.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.31	4.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	39,852	35,208
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.156	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.171	-	0.844	1.000	0.844	0.156	0.962	1.030	1.060
2	0.186	-	0.700	1.000	0.700	0.300	0.925	1.061	1.124
3	0.203	-	0.570	1.000	0.570	0.430	0.889	1.093	1.191
4	0.220	-	0.454	1.000	0.454	0.546	0.855	1.126	1.262
5	0.238	-	0.354	1.000	0.354	0.646	0.822	1.159	1.338
6	0.257	-	0.270	1.000	0.270	0.730	0.790	1.194	1.419
7	0.276	-	0.201	1.000	0.201	0.799	0.760	1.230	1.504
8	0.297	-	0.145	1.000	0.145	0.855	0.731	1.267	1.594
9	0.317	-	0.102	1.000	0.102	0.898	0.703	1.305	1.689
10	0.339	-	0.070	1.000	0.070	0.930	0.676	1.344	1.791
11	0.361	-	0.046	1.000	0.046	0.954	0.650	1.384	1.898
12	0.384	-	0.030	1.000	0.030	0.970	0.625	1.426	2.012
13	0.405	-	0.018	1.000	0.018	0.982	0.601	1.469	2.133
14	0.425	-	0.011	1.000	0.011	0.989	0.577	1.513	2.261
15	0.444	-	0.006	1.000	0.006	0.994	0.555	1.558	2.397
16	0.464	-	0.003	1.000	0.003	0.997	0.534	1.605	2.540
17	0.482	-	0.002	1.000	0.002	0.998	0.513	1.653	2.693
18	0.495	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
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41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
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49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
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52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
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71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
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84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
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106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
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117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	60		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1977		
(15)	**DATE OF FILING**	2/25/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	72	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	22.02	14.89
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	22.02	14.89
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	165,337	111,798
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	-	0.983	1.000	0.983	0.017	0.962	1.030	1.060
2	0.020	-	0.965	1.000	0.965	0.035	0.925	1.061	1.124
3	0.023	-	0.946	1.000	0.946	0.054	0.889	1.093	1.191
4	0.025	-	0.924	1.000	0.924	0.076	0.855	1.126	1.262
5	0.028	-	0.901	1.000	0.901	0.099	0.822	1.159	1.338
6	0.032	-	0.875	1.000	0.875	0.125	0.790	1.194	1.419
7	0.035	-	0.848	1.000	0.848	0.152	0.760	1.230	1.504
8	0.039	-	0.818	1.000	0.818	0.182	0.731	1.267	1.594
9	0.044	-	0.785	1.000	0.785	0.215	0.703	1.305	1.689
10	0.049	-	0.751	1.000	0.751	0.249	0.676	1.344	1.791
11	0.055	-	0.714	1.000	0.714	0.286	0.650	1.384	1.898
12	0.061	-	0.675	1.000	0.675	0.325	0.625	1.426	2.012
13	0.068	-	0.634	1.000	0.634	0.366	0.601	1.469	2.133
14	0.075	-	0.591	1.000	0.591	0.409	0.577	1.513	2.261
15	0.084	-	0.546	1.000	0.546	0.454	0.555	1.558	2.397
16	0.094	-	0.500	1.000	0.500	0.500	0.534	1.605	2.540
17	0.105	-	0.453	1.000	0.453	0.547	0.513	1.653	2.693
18	0.116	-	0.406	1.000	0.406	0.594	0.494	1.702	2.854
19	0.129	-	0.359	1.000	0.359	0.641	0.475	1.754	3.026
20	0.142	-	0.313	1.000	0.313	0.687	0.456	1.806	3.207
21	0.156	-	0.268	1.000	0.268	0.732	0.439	1.860	3.400
22	0.171	-	0.226	1.000	0.226	0.774	0.422	1.916	3.604
23	0.186	-	0.188	1.000	0.188	0.812	0.406	1.974	3.820
24	0.203	-	0.153	1.000	0.153	0.847	0.390	2.033	4.049
25	0.220	-	0.122	1.000	0.122	0.878	0.375	2.094	4.292
26	0.238	-	0.095	1.000	0.095	0.905	0.361	2.157	4.549
27	0.257	-	0.072	1.000	0.072	0.928	0.347	2.221	4.822
28	0.276	-	0.054	1.000	0.054	0.946	0.333	2.288	5.112
29	0.297	-	0.039	1.000	0.039	0.961	0.321	2.357	5.418
30	0.317	-	0.027	1.000	0.027	0.973	0.308	2.427	5.743
31	0.339	-	0.019	1.000	0.019	0.981	0.296	2.500	6.088
32	0.361	-	0.012	1.000	0.012	0.988	0.285	2.575	6.453
33	0.384	-	0.008	1.000	0.008	0.992	0.274	2.652	6.841
34	0.405	-	0.005	1.000	0.005	0.995	0.264	2.732	7.251
35	0.425	-	0.003	1.000	0.003	0.997	0.253	2.814	7.686
36	0.444	-	0.002	1.000	0.002	0.998	0.244	2.898	8.147
37	0.464	-	0.001	1.000	0.001	0.999	0.234	2.985	8.636
38	0.482	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.495	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	1.000	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	61		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/1/1981		
(15)	**DATE OF FILING**	5/26/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	88	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.58	6.39
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.58	6.39
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	56,902	47,944
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.094	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.105	-	0.906	1.000	0.906	0.094	0.962	1.030	1.060
2	0.116	-	0.811	1.000	0.811	0.189	0.925	1.061	1.124
3	0.129	-	0.717	1.000	0.717	0.283	0.889	1.093	1.191
4	0.142	-	0.625	1.000	0.625	0.375	0.855	1.126	1.262
5	0.156	-	0.536	1.000	0.536	0.464	0.822	1.159	1.338
6	0.171	-	0.452	1.000	0.452	0.548	0.790	1.194	1.419
7	0.186	-	0.375	1.000	0.375	0.625	0.760	1.230	1.504
8	0.203	-	0.305	1.000	0.305	0.695	0.731	1.267	1.594
9	0.220	-	0.244	1.000	0.244	0.756	0.703	1.305	1.689
10	0.238	-	0.190	1.000	0.190	0.810	0.676	1.344	1.791
11	0.257	-	0.145	1.000	0.145	0.855	0.650	1.384	1.898
12	0.276	-	0.108	1.000	0.108	0.892	0.625	1.426	2.012
13	0.297	-	0.078	1.000	0.078	0.922	0.601	1.469	2.133
14	0.317	-	0.055	1.000	0.055	0.945	0.577	1.513	2.261
15	0.339	-	0.037	1.000	0.037	0.963	0.555	1.558	2.397
16	0.361	-	0.025	1.000	0.025	0.975	0.534	1.605	2.540
17	0.384	-	0.016	1.000	0.016	0.984	0.513	1.653	2.693
18	0.405	-	0.010	1.000	0.010	0.990	0.494	1.702	2.854
19	0.425	-	0.006	1.000	0.006	0.994	0.475	1.754	3.026
20	0.444	-	0.003	1.000	0.003	0.997	0.456	1.806	3.207
21	0.464	-	0.002	1.000	0.002	0.998	0.439	1.860	3.400
22	0.482	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.495	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	1.000	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	62		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	8/15/1972		
(15)	**DATE OF FILING**	5/7/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	84	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.11	8.13
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.11	8.13
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	75,865	61,038
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.061	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.068	-	0.939	1.000	0.939	0.061	0.962	1.030	1.060
2	0.075	-	0.875	1.000	0.875	0.125	0.925	1.061	1.124
3	0.084	-	0.809	1.000	0.809	0.191	0.889	1.093	1.191
4	0.094	-	0.741	1.000	0.741	0.259	0.855	1.126	1.262
5	0.105	-	0.672	1.000	0.672	0.328	0.822	1.159	1.338
6	0.116	-	0.602	1.000	0.602	0.398	0.790	1.194	1.419
7	0.129	-	0.532	1.000	0.532	0.468	0.760	1.230	1.504
8	0.142	-	0.463	1.000	0.463	0.537	0.731	1.267	1.594
9	0.156	-	0.397	1.000	0.397	0.603	0.703	1.305	1.689
10	0.171	-	0.335	1.000	0.335	0.665	0.676	1.344	1.791
11	0.186	-	0.278	1.000	0.278	0.722	0.650	1.384	1.898
12	0.203	-	0.226	1.000	0.226	0.774	0.625	1.426	2.012
13	0.220	-	0.181	1.000	0.181	0.819	0.601	1.469	2.133
14	0.238	-	0.141	1.000	0.141	0.859	0.577	1.513	2.261
15	0.257	-	0.107	1.000	0.107	0.893	0.555	1.558	2.397
16	0.276	-	0.080	1.000	0.080	0.920	0.534	1.605	2.540
17	0.297	-	0.058	1.000	0.058	0.942	0.513	1.653	2.693
18	0.317	-	0.041	1.000	0.041	0.959	0.494	1.702	2.854
19	0.339	-	0.028	1.000	0.028	0.972	0.475	1.754	3.026
20	0.361	-	0.018	1.000	0.018	0.982	0.456	1.806	3.207
21	0.384	-	0.012	1.000	0.012	0.988	0.439	1.860	3.400
22	0.405	-	0.007	1.000	0.007	0.993	0.422	1.916	3.604
23	0.425	-	0.004	1.000	0.004	0.996	0.406	1.974	3.820
24	0.444	-	0.002	1.000	0.002	0.998	0.390	2.033	4.049
25	0.464	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.482	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.495	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
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(24) = (20) * (22) + (21) * (23)
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(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	63		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/17/1973		
(15)	**DATE OF FILING**	5/21/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	64		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	5/1/1976		
(15)	**DATE OF FILING**	1/4/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	93	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.31	4.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.31	4.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	39,852	35,208
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.156	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.171	-	0.844	1.000	0.844	0.156	0.962	1.030	1.060
2	0.186	-	0.700	1.000	0.700	0.300	0.925	1.061	1.124
3	0.203	-	0.570	1.000	0.570	0.430	0.889	1.093	1.191
4	0.220	-	0.454	1.000	0.454	0.546	0.855	1.126	1.262
5	0.238	-	0.354	1.000	0.354	0.646	0.822	1.159	1.338
6	0.257	-	0.270	1.000	0.270	0.730	0.790	1.194	1.419
7	0.276	-	0.201	1.000	0.201	0.799	0.760	1.230	1.504
8	0.297	-	0.145	1.000	0.145	0.855	0.731	1.267	1.594
9	0.317	-	0.102	1.000	0.102	0.898	0.703	1.305	1.689
10	0.339	-	0.070	1.000	0.070	0.930	0.676	1.344	1.791
11	0.361	-	0.046	1.000	0.046	0.954	0.650	1.384	1.898
12	0.384	-	0.030	1.000	0.030	0.970	0.625	1.426	2.012
13	0.405	-	0.018	1.000	0.018	0.982	0.601	1.469	2.133
14	0.425	-	0.011	1.000	0.011	0.989	0.577	1.513	2.261
15	0.444	-	0.006	1.000	0.006	0.994	0.555	1.558	2.397
16	0.464	-	0.003	1.000	0.003	0.997	0.534	1.605	2.540
17	0.482	-	0.002	1.000	0.002	0.998	0.513	1.653	2.693
18	0.495	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	65		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/1/1975		
(15)	**DATE OF FILING**	6/17/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	84	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.11	8.13
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.11	8.13
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	75,865	61,038
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.061	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.068	-	0.939	1.000	0.939	0.061	0.962	1.030	1.060
2	0.075	-	0.875	1.000	0.875	0.125	0.925	1.061	1.124
3	0.084	-	0.809	1.000	0.809	0.191	0.889	1.093	1.191
4	0.094	-	0.741	1.000	0.741	0.259	0.855	1.126	1.262
5	0.105	-	0.672	1.000	0.672	0.328	0.822	1.159	1.338
6	0.116	-	0.602	1.000	0.602	0.398	0.790	1.194	1.419
7	0.129	-	0.532	1.000	0.532	0.468	0.760	1.230	1.504
8	0.142	-	0.463	1.000	0.463	0.537	0.731	1.267	1.594
9	0.156	-	0.397	1.000	0.397	0.603	0.703	1.305	1.689
10	0.171	-	0.335	1.000	0.335	0.665	0.676	1.344	1.791
11	0.186	-	0.278	1.000	0.278	0.722	0.650	1.384	1.898
12	0.203	-	0.226	1.000	0.226	0.774	0.625	1.426	2.012
13	0.220	-	0.181	1.000	0.181	0.819	0.601	1.469	2.133
14	0.238	-	0.141	1.000	0.141	0.859	0.577	1.513	2.261
15	0.257	-	0.107	1.000	0.107	0.893	0.555	1.558	2.397
16	0.276	-	0.080	1.000	0.080	0.920	0.534	1.605	2.540
17	0.297	-	0.058	1.000	0.058	0.942	0.513	1.653	2.693
18	0.317	-	0.041	1.000	0.041	0.959	0.494	1.702	2.854
19	0.339	-	0.028	1.000	0.028	0.972	0.475	1.754	3.026
20	0.361	-	0.018	1.000	0.018	0.982	0.456	1.806	3.207
21	0.384	-	0.012	1.000	0.012	0.988	0.439	1.860	3.400
22	0.405	-	0.007	1.000	0.007	0.993	0.422	1.916	3.604
23	0.425	-	0.004	1.000	0.004	0.996	0.406	1.974	3.820
24	0.444	-	0.002	1.000	0.002	0.998	0.390	2.033	4.049
25	0.464	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.482	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.495	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
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98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	66		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	5/29/1977		
(15)	**DATE OF FILING**	8/19/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	67		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/1/1980		
(15)	**DATE OF FILING**	12/4/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
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14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
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41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	68		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/20/1980		
(15)	**DATE OF FILING**	12/12/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	82	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.61	9.11
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.61	9.11
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	87,191	68,381
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.049	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	-	0.951	1.000	0.951	0.049	0.962	1.030	1.060
2	0.061	-	0.899	1.000	0.899	0.101	0.925	1.061	1.124
3	0.068	-	0.844	1.000	0.844	0.156	0.889	1.093	1.191
4	0.075	-	0.787	1.000	0.787	0.213	0.855	1.126	1.262
5	0.084	-	0.727	1.000	0.727	0.273	0.822	1.159	1.338
6	0.094	-	0.666	1.000	0.666	0.334	0.790	1.194	1.419
7	0.105	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.116	-	0.541	1.000	0.541	0.459	0.731	1.267	1.594
9	0.129	-	0.478	1.000	0.478	0.522	0.703	1.305	1.689
10	0.142	-	0.416	1.000	0.416	0.584	0.676	1.344	1.791
11	0.156	-	0.357	1.000	0.357	0.643	0.650	1.384	1.898
12	0.171	-	0.301	1.000	0.301	0.699	0.625	1.426	2.012
13	0.186	-	0.250	1.000	0.250	0.750	0.601	1.469	2.133
14	0.203	-	0.203	1.000	0.203	0.797	0.577	1.513	2.261
15	0.220	-	0.162	1.000	0.162	0.838	0.555	1.558	2.397
16	0.238	-	0.127	1.000	0.127	0.873	0.534	1.605	2.540
17	0.257	-	0.097	1.000	0.097	0.903	0.513	1.653	2.693
18	0.276	-	0.072	1.000	0.072	0.928	0.494	1.702	2.854
19	0.297	-	0.052	1.000	0.052	0.948	0.475	1.754	3.026
20	0.317	-	0.037	1.000	0.037	0.963	0.456	1.806	3.207
21	0.339	-	0.025	1.000	0.025	0.975	0.439	1.860	3.400
22	0.361	-	0.016	1.000	0.016	0.984	0.422	1.916	3.604
23	0.384	-	0.011	1.000	0.011	0.989	0.406	1.974	3.820
24	0.405	-	0.006	1.000	0.006	0.994	0.390	2.033	4.049
25	0.425	-	0.004	1.000	0.004	0.996	0.375	2.094	4.292
26	0.444	-	0.002	1.000	0.002	0.998	0.361	2.157	4.549
27	0.464	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.482	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.495	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	1.000	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	69		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/8/1980		
(15)	**DATE OF FILING**	1/6/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	74	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	19.54	13.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	19.54	13.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	146,669	102,409
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.020	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.023	-	0.980	1.000	0.980	0.020	0.962	1.030	1.060
2	0.025	-	0.957	1.000	0.957	0.043	0.925	1.061	1.124
3	0.028	-	0.933	1.000	0.933	0.067	0.889	1.093	1.191
4	0.032	-	0.907	1.000	0.907	0.093	0.855	1.126	1.262
5	0.035	-	0.878	1.000	0.878	0.122	0.822	1.159	1.338
6	0.039	-	0.847	1.000	0.847	0.153	0.790	1.194	1.419
7	0.044	-	0.814	1.000	0.814	0.186	0.760	1.230	1.504
8	0.049	-	0.778	1.000	0.778	0.222	0.731	1.267	1.594
9	0.055	-	0.740	1.000	0.740	0.260	0.703	1.305	1.689
10	0.061	-	0.699	1.000	0.699	0.301	0.676	1.344	1.791
11	0.068	-	0.656	1.000	0.656	0.344	0.650	1.384	1.898
12	0.075	-	0.612	1.000	0.612	0.388	0.625	1.426	2.012
13	0.084	-	0.566	1.000	0.566	0.434	0.601	1.469	2.133
14	0.094	-	0.518	1.000	0.518	0.482	0.577	1.513	2.261
15	0.105	-	0.470	1.000	0.470	0.530	0.555	1.558	2.397
16	0.116	-	0.420	1.000	0.420	0.580	0.534	1.605	2.540
17	0.129	-	0.372	1.000	0.372	0.628	0.513	1.653	2.693
18	0.142	-	0.324	1.000	0.324	0.676	0.494	1.702	2.854
19	0.156	-	0.278	1.000	0.278	0.722	0.475	1.754	3.026
20	0.171	-	0.234	1.000	0.234	0.766	0.456	1.806	3.207
21	0.186	-	0.194	1.000	0.194	0.806	0.439	1.860	3.400
22	0.203	-	0.158	1.000	0.158	0.842	0.422	1.916	3.604
23	0.220	-	0.126	1.000	0.126	0.874	0.406	1.974	3.820
24	0.238	-	0.098	1.000	0.098	0.902	0.390	2.033	4.049
25	0.257	-	0.075	1.000	0.075	0.925	0.375	2.094	4.292
26	0.276	-	0.056	1.000	0.056	0.944	0.361	2.157	4.549
27	0.297	-	0.040	1.000	0.040	0.960	0.347	2.221	4.822
28	0.317	-	0.028	1.000	0.028	0.972	0.333	2.288	5.112
29	0.339	-	0.019	1.000	0.019	0.981	0.321	2.357	5.418
30	0.361	-	0.013	1.000	0.013	0.987	0.308	2.427	5.743
31	0.384	-	0.008	1.000	0.008	0.992	0.296	2.500	6.088
32	0.405	-	0.005	1.000	0.005	0.995	0.285	2.575	6.453
33	0.425	-	0.003	1.000	0.003	0.997	0.274	2.652	6.841
34	0.444	-	0.002	1.000	0.002	0.998	0.264	2.732	7.251
35	0.464	-	0.001	1.000	0.001	0.999	0.253	2.814	7.686
36	0.482	-	0.001	1.000	0.001	0.999	0.244	2.898	8.147
37	0.495	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	1.000	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	70	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	6/1/1978	
(15)	**DATE OF FILING**	1/29/1981	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	96	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.33	3.92
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.33	3.92
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	32,520	29,403
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.203	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.220	-	0.797	1.000	0.797	0.203	0.962	1.030	1.060
2	0.238	-	0.622	1.000	0.622	0.378	0.925	1.061	1.124
3	0.257	-	0.474	1.000	0.474	0.526	0.889	1.093	1.191
4	0.276	-	0.353	1.000	0.353	0.647	0.855	1.126	1.262
5	0.297	-	0.255	1.000	0.255	0.745	0.822	1.159	1.338
6	0.317	-	0.179	1.000	0.179	0.821	0.790	1.194	1.419
7	0.339	-	0.123	1.000	0.123	0.877	0.760	1.230	1.504
8	0.361	-	0.081	1.000	0.081	0.919	0.731	1.267	1.594
9	0.384	-	0.052	1.000	0.052	0.948	0.703	1.305	1.689
10	0.405	-	0.032	1.000	0.032	0.968	0.676	1.344	1.791
11	0.425	-	0.019	1.000	0.019	0.981	0.650	1.384	1.898
12	0.444	-	0.011	1.000	0.011	0.989	0.625	1.426	2.012
13	0.464	-	0.006	1.000	0.006	0.994	0.601	1.469	2.133
14	0.482	-	0.003	1.000	0.003	0.997	0.577	1.513	2.261
15	0.495	-	0.002	1.000	0.002	0.998	0.555	1.558	2.397
16	0.500	-	0.001	1.000	0.001	0.999	0.534	1.605	2.540
17	0.500	-	0.000	1.000	0.000	1.000	0.513	1.653	2.693
18	0.500	-	0.000	1.000	0.000	1.000	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	1.000	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	71		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/2/1981		
(15)	**DATE OF FILING**	3/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	84	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.11	8.13
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.11	8.13
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	75,865	61,038
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.061	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.068	-	0.939	1.000	0.939	0.061	0.962	1.030	1.060
2	0.075	-	0.875	1.000	0.875	0.125	0.925	1.061	1.124
3	0.084	-	0.809	1.000	0.809	0.191	0.889	1.093	1.191
4	0.094	-	0.741	1.000	0.741	0.259	0.855	1.126	1.262
5	0.105	-	0.672	1.000	0.672	0.328	0.822	1.159	1.338
6	0.116	-	0.602	1.000	0.602	0.398	0.790	1.194	1.419
7	0.129	-	0.532	1.000	0.532	0.468	0.760	1.230	1.504
8	0.142	-	0.463	1.000	0.463	0.537	0.731	1.267	1.594
9	0.156	-	0.397	1.000	0.397	0.603	0.703	1.305	1.689
10	0.171	-	0.335	1.000	0.335	0.665	0.676	1.344	1.791
11	0.186	-	0.278	1.000	0.278	0.722	0.650	1.384	1.898
12	0.203	-	0.226	1.000	0.226	0.774	0.625	1.426	2.012
13	0.220	-	0.181	1.000	0.181	0.819	0.601	1.469	2.133
14	0.238	-	0.141	1.000	0.141	0.859	0.577	1.513	2.261
15	0.257	-	0.107	1.000	0.107	0.893	0.555	1.558	2.397
16	0.276	-	0.080	1.000	0.080	0.920	0.534	1.605	2.540
17	0.297	-	0.058	1.000	0.058	0.942	0.513	1.653	2.693
18	0.317	-	0.041	1.000	0.041	0.959	0.494	1.702	2.854
19	0.339	-	0.028	1.000	0.028	0.972	0.475	1.754	3.026
20	0.361	-	0.018	1.000	0.018	0.982	0.456	1.806	3.207
21	0.384	-	0.012	1.000	0.012	0.988	0.439	1.860	3.400
22	0.405	-	0.007	1.000	0.007	0.993	0.422	1.916	3.604
23	0.425	-	0.004	1.000	0.004	0.996	0.406	1.974	3.820
24	0.444	-	0.002	1.000	0.002	0.998	0.390	2.033	4.049
25	0.464	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.482	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.495	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	72		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/21/1978		
(15)	**DATE OF FILING**	3/26/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
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(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
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(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	73		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1980		
(15)	**DATE OF FILING**	3/24/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	52,921	45,057
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
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(1) TIME PERIOD (IN YEARS)
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(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	74		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/12/1977		
(15)	**DATE OF FILING**	4/8/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	49,242	42,343
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	75		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/1/1976		
(15)	**DATE OF FILING**	4/3/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	91	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.11	5.30
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.11	5.30
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	45,850	39,801
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.129	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.142	-	0.871	1.000	0.871	0.129	0.962	1.030	1.060
2	0.156	-	0.748	1.000	0.748	0.252	0.925	1.061	1.124
3	0.171	-	0.631	1.000	0.631	0.369	0.889	1.093	1.191
4	0.186	-	0.523	1.000	0.523	0.477	0.855	1.126	1.262
5	0.203	-	0.426	1.000	0.426	0.574	0.822	1.159	1.338
6	0.220	-	0.340	1.000	0.340	0.660	0.790	1.194	1.419
7	0.238	-	0.265	1.000	0.265	0.735	0.760	1.230	1.504
8	0.257	-	0.202	1.000	0.202	0.798	0.731	1.267	1.594
9	0.276	-	0.150	1.000	0.150	0.850	0.703	1.305	1.689
10	0.297	-	0.109	1.000	0.109	0.891	0.676	1.344	1.791
11	0.317	-	0.076	1.000	0.076	0.924	0.650	1.384	1.898
12	0.339	-	0.052	1.000	0.052	0.948	0.625	1.426	2.012
13	0.361	-	0.035	1.000	0.035	0.965	0.601	1.469	2.133
14	0.384	-	0.022	1.000	0.022	0.978	0.577	1.513	2.261
15	0.405	-	0.014	1.000	0.014	0.986	0.555	1.558	2.397
16	0.425	-	0.008	1.000	0.008	0.992	0.534	1.605	2.540
17	0.444	-	0.005	1.000	0.005	0.995	0.513	1.653	2.693
18	0.464	-	0.003	1.000	0.003	0.997	0.494	1.702	2.854
19	0.482	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.495	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	1.000	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	76		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	1/1/1974		
(15)	**DATE OF FILING**	4/30/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	50	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	66.03	29.72
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	66.03	29.72
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	495,736	223,106
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.001	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.002	-	0.999	1.000	0.999	0.001	0.962	1.030	1.060
2	0.002	-	0.997	1.000	0.997	0.003	0.925	1.061	1.124
3	0.002	-	0.995	1.000	0.995	0.005	0.889	1.093	1.191
4	0.002	-	0.993	1.000	0.993	0.007	0.855	1.126	1.262
5	0.002	-	0.991	1.000	0.991	0.009	0.822	1.159	1.338
6	0.003	-	0.989	1.000	0.989	0.011	0.790	1.194	1.419
7	0.003	-	0.987	1.000	0.987	0.013	0.760	1.230	1.504
8	0.003	-	0.984	1.000	0.984	0.016	0.731	1.267	1.594
9	0.004	-	0.980	1.000	0.980	0.020	0.703	1.305	1.689
10	0.004	-	0.977	1.000	0.977	0.023	0.676	1.344	1.791
11	0.005	-	0.972	1.000	0.972	0.028	0.650	1.384	1.898
12	0.006	-	0.967	1.000	0.967	0.033	0.625	1.426	2.012
13	0.007	-	0.962	1.000	0.962	0.038	0.601	1.469	2.133
14	0.008	-	0.955	1.000	0.955	0.045	0.577	1.513	2.261
15	0.009	-	0.948	1.000	0.948	0.052	0.555	1.558	2.397
16	0.010	-	0.940	1.000	0.940	0.060	0.534	1.605	2.540
17	0.011	-	0.931	1.000	0.931	0.069	0.513	1.653	2.693
18	0.012	-	0.921	1.000	0.921	0.079	0.494	1.702	2.854
19	0.013	-	0.910	1.000	0.910	0.090	0.475	1.754	3.026
20	0.014	-	0.898	1.000	0.898	0.102	0.456	1.806	3.207
21	0.015	-	0.886	1.000	0.886	0.114	0.439	1.860	3.400
22	0.017	-	0.873	1.000	0.873	0.127	0.422	1.916	3.604
23	0.018	-	0.858	1.000	0.858	0.142	0.406	1.974	3.820
24	0.020	-	0.842	1.000	0.842	0.158	0.390	2.033	4.049
25	0.023	-	0.825	1.000	0.825	0.175	0.375	2.094	4.292
26	0.025	-	0.807	1.000	0.807	0.193	0.361	2.157	4.549
27	0.028	-	0.786	1.000	0.786	0.214	0.347	2.221	4.822
28	0.032	-	0.764	1.000	0.764	0.236	0.333	2.288	5.112
29	0.035	-	0.740	1.000	0.740	0.260	0.321	2.357	5.418
30	0.039	-	0.713	1.000	0.713	0.287	0.308	2.427	5.743
31	0.044	-	0.685	1.000	0.685	0.315	0.296	2.500	6.088
32	0.049	-	0.655	1.000	0.655	0.345	0.285	2.575	6.453
33	0.055	-	0.623	1.000	0.623	0.377	0.274	2.652	6.841
34	0.061	-	0.589	1.000	0.589	0.411	0.264	2.732	7.251
35	0.068	-	0.553	1.000	0.553	0.447	0.253	2.814	7.686
36	0.075	-	0.515	1.000	0.515	0.485	0.244	2.898	8.147
37	0.084	-	0.477	1.000	0.477	0.523	0.234	2.985	8.636
38	0.094	-	0.437	1.000	0.437	0.563	0.225	3.075	9.154
39	0.105	-	0.396	1.000	0.396	0.604	0.217	3.167	9.704
40	0.116	-	0.354	1.000	0.354	0.646	0.208	3.262	10.286
41	0.129	-	0.313	1.000	0.313	0.687	0.200	3.360	10.903
42	0.142	-	0.273	1.000	0.273	0.727	0.193	3.461	11.557
43	0.156	-	0.234	1.000	0.234	0.766	0.185	3.565	12.250
44	0.171	-	0.198	1.000	0.198	0.802	0.178	3.671	12.985
45	0.186	-	0.164	1.000	0.164	0.836	0.171	3.782	13.765
46	0.203	-	0.133	1.000	0.133	0.867	0.165	3.895	14.590
47	0.220	-	0.106	1.000	0.106	0.894	0.158	4.012	15.466
48	0.238	-	0.083	1.000	0.083	0.917	0.152	4.132	16.394
49	0.257	-	0.063	1.000	0.063	0.937	0.146	4.256	17.378
50	0.276	-	0.047	1.000	0.047	0.953	0.141	4.384	18.420
51	0.297	-	0.034	1.000	0.034	0.966	0.135	4.515	19.525
52	0.317	-	0.024	1.000	0.024	0.976	0.130	4.651	20.697
53	0.339	-	0.016	1.000	0.016	0.984	0.125	4.790	21.939
54	0.361	-	0.011	1.000	0.011	0.989	0.120	4.934	23.255
55	0.384	-	0.007	1.000	0.007	0.993	0.116	5.082	24.650
56	0.405	-	0.004	1.000	0.004	0.996	0.111	5.235	26.129
57	0.425	-	0.003	1.000	0.003	0.997	0.107	5.392	27.697
58	0.444	-	0.001	1.000	0.001	0.999	0.103	5.553	29.359
59	0.464	-	0.001	1.000	0.001	0.999	0.099	5.720	31.120
60	0.482	-	0.000	1.000	0.000	1.000	0.095	5.892	32.988
61	0.495	-	0.000	1.000	0.000	1.000	0.091	6.068	34.967
62	0.500	-	0.000	1.000	0.000	1.000	0.088	6.250	37.065
63	0.500	-	0.000	1.000	0.000	1.000	0.085	6.438	39.289
64	0.500	-	0.000	1.000	0.000	1.000	0.081	6.631	41.646
65	0.500	-	0.000	1.000	0.000	1.000	0.078	6.830	44.145
66	0.500	-	0.000	1.000	0.000	1.000	0.075	7.035	46.794
67	0.500	-	0.000	1.000	0.000	1.000	0.072	7.246	49.601
68	0.500	-	0.000	1.000	0.000	1.000	0.069	7.463	52.577
69	0.500	-	0.000	1.000	0.000	1.000	0.067	7.687	55.732
70	1.000	-	0.000	1.000	0.000	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
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85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
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102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
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108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	77		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/1/1981		
(15)	**DATE OF FILING**	9/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	76	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	17.26	12.43
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	17.26	12.43
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	129,553	93,303
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.025	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.028	-	0.975	1.000	0.975	0.025	0.962	1.030	1.060
2	0.032	-	0.947	1.000	0.947	0.053	0.925	1.061	1.124
3	0.035	-	0.917	1.000	0.917	0.083	0.889	1.093	1.191
4	0.039	-	0.885	1.000	0.885	0.115	0.855	1.126	1.262
5	0.044	-	0.850	1.000	0.850	0.150	0.822	1.159	1.338
6	0.049	-	0.812	1.000	0.812	0.188	0.790	1.194	1.419
7	0.055	-	0.772	1.000	0.772	0.228	0.760	1.230	1.504
8	0.061	-	0.730	1.000	0.730	0.270	0.731	1.267	1.594
9	0.068	-	0.686	1.000	0.686	0.314	0.703	1.305	1.689
10	0.075	-	0.639	1.000	0.639	0.361	0.676	1.344	1.791
11	0.084	-	0.591	1.000	0.591	0.409	0.650	1.384	1.898
12	0.094	-	0.541	1.000	0.541	0.459	0.625	1.426	2.012
13	0.105	-	0.491	1.000	0.491	0.509	0.601	1.469	2.133
14	0.116	-	0.439	1.000	0.439	0.561	0.577	1.513	2.261
15	0.129	-	0.388	1.000	0.388	0.612	0.555	1.558	2.397
16	0.142	-	0.338	1.000	0.338	0.662	0.534	1.605	2.540
17	0.156	-	0.290	1.000	0.290	0.710	0.513	1.653	2.693
18	0.171	-	0.245	1.000	0.245	0.755	0.494	1.702	2.854
19	0.186	-	0.203	1.000	0.203	0.797	0.475	1.754	3.026
20	0.203	-	0.165	1.000	0.165	0.835	0.456	1.806	3.207
21	0.220	-	0.132	1.000	0.132	0.868	0.439	1.860	3.400
22	0.238	-	0.103	1.000	0.103	0.897	0.422	1.916	3.604
23	0.257	-	0.078	1.000	0.078	0.922	0.406	1.974	3.820
24	0.276	-	0.058	1.000	0.058	0.942	0.390	2.033	4.049
25	0.297	-	0.042	1.000	0.042	0.958	0.375	2.094	4.292
26	0.317	-	0.030	1.000	0.030	0.970	0.361	2.157	4.549
27	0.339	-	0.020	1.000	0.020	0.980	0.347	2.221	4.822
28	0.361	-	0.013	1.000	0.013	0.987	0.333	2.288	5.112
29	0.384	-	0.009	1.000	0.009	0.991	0.321	2.357	5.418
30	0.405	-	0.005	1.000	0.005	0.995	0.308	2.427	5.743
31	0.425	-	0.003	1.000	0.003	0.997	0.296	2.500	6.088
32	0.444	-	0.002	1.000	0.002	0.998	0.285	2.575	6.453
33	0.464	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.482	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.495	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	1.000	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	78		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1980		
(15)	**DATE OF FILING**	2/10/1982		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	65,786	54,212
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	79		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/1/1983		
(15)	**DATE OF FILING**	9/2/1983		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	85	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.41	7.67
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.41	7.67
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	70,677	57,561
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.068	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.075	-	0.932	1.000	0.932	0.068	0.962	1.030	1.060
2	0.084	-	0.862	1.000	0.862	0.138	0.925	1.061	1.124
3	0.094	-	0.790	1.000	0.790	0.210	0.889	1.093	1.191
4	0.105	-	0.716	1.000	0.716	0.284	0.855	1.126	1.262
5	0.116	-	0.641	1.000	0.641	0.359	0.822	1.159	1.338
6	0.129	-	0.566	1.000	0.566	0.434	0.790	1.194	1.419
7	0.142	-	0.493	1.000	0.493	0.507	0.760	1.230	1.504
8	0.156	-	0.423	1.000	0.423	0.577	0.731	1.267	1.594
9	0.171	-	0.357	1.000	0.357	0.643	0.703	1.305	1.689
10	0.186	-	0.296	1.000	0.296	0.704	0.676	1.344	1.791
11	0.203	-	0.241	1.000	0.241	0.759	0.650	1.384	1.898
12	0.220	-	0.192	1.000	0.192	0.808	0.625	1.426	2.012
13	0.238	-	0.150	1.000	0.150	0.850	0.601	1.469	2.133
14	0.257	-	0.114	1.000	0.114	0.886	0.577	1.513	2.261
15	0.276	-	0.085	1.000	0.085	0.915	0.555	1.558	2.397
16	0.297	-	0.062	1.000	0.062	0.938	0.534	1.605	2.540
17	0.317	-	0.043	1.000	0.043	0.957	0.513	1.653	2.693
18	0.339	-	0.030	1.000	0.030	0.970	0.494	1.702	2.854
19	0.361	-	0.020	1.000	0.020	0.980	0.475	1.754	3.026
20	0.384	-	0.012	1.000	0.012	0.988	0.456	1.806	3.207
21	0.405	-	0.008	1.000	0.008	0.992	0.439	1.860	3.400
22	0.425	-	0.005	1.000	0.005	0.995	0.422	1.916	3.604
23	0.444	-	0.003	1.000	0.003	0.997	0.406	1.974	3.820
24	0.464	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.482	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.495	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	80		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1984		
(15)	**DATE OF FILING**	4/12/1984		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	16.19	11.84
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	16.19	11.84
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	121,569	88,880
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.028	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.032	-	0.972	1.000	0.972	0.028	0.962	1.030	1.060
2	0.035	-	0.941	1.000	0.941	0.059	0.925	1.061	1.124
3	0.039	-	0.908	1.000	0.908	0.092	0.889	1.093	1.191
4	0.044	-	0.872	1.000	0.872	0.128	0.855	1.126	1.262
5	0.049	-	0.833	1.000	0.833	0.167	0.822	1.159	1.338
6	0.055	-	0.793	1.000	0.793	0.207	0.790	1.194	1.419
7	0.061	-	0.749	1.000	0.749	0.251	0.760	1.230	1.504
8	0.068	-	0.703	1.000	0.703	0.297	0.731	1.267	1.594
9	0.075	-	0.656	1.000	0.656	0.344	0.703	1.305	1.689
10	0.084	-	0.606	1.000	0.606	0.394	0.676	1.344	1.791
11	0.094	-	0.555	1.000	0.555	0.445	0.650	1.384	1.898
12	0.105	-	0.503	1.000	0.503	0.497	0.625	1.426	2.012
13	0.116	-	0.451	1.000	0.451	0.549	0.601	1.469	2.133
14	0.129	-	0.398	1.000	0.398	0.602	0.577	1.513	2.261
15	0.142	-	0.347	1.000	0.347	0.653	0.555	1.558	2.397
16	0.156	-	0.298	1.000	0.298	0.702	0.534	1.605	2.540
17	0.171	-	0.251	1.000	0.251	0.749	0.513	1.653	2.693
18	0.186	-	0.208	1.000	0.208	0.792	0.494	1.702	2.854
19	0.203	-	0.170	1.000	0.170	0.830	0.475	1.754	3.026
20	0.220	-	0.135	1.000	0.135	0.865	0.456	1.806	3.207
21	0.238	-	0.106	1.000	0.106	0.894	0.439	1.860	3.400
22	0.257	-	0.080	1.000	0.080	0.920	0.422	1.916	3.604
23	0.276	-	0.060	1.000	0.060	0.940	0.406	1.974	3.820
24	0.297	-	0.043	1.000	0.043	0.957	0.390	2.033	4.049
25	0.317	-	0.030	1.000	0.030	0.970	0.375	2.094	4.292
26	0.339	-	0.021	1.000	0.021	0.979	0.361	2.157	4.549
27	0.361	-	0.014	1.000	0.014	0.986	0.347	2.221	4.822
28	0.384	-	0.009	1.000	0.009	0.991	0.333	2.288	5.112
29	0.405	-	0.005	1.000	0.005	0.995	0.321	2.357	5.418
30	0.425	-	0.003	1.000	0.003	0.997	0.308	2.427	5.743
31	0.444	-	0.002	1.000	0.002	0.998	0.296	2.500	6.088
32	0.464	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.482	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.495	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	1.000	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	81		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1976		
(15)	**DATE OF FILING**	4/8/1985		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	92	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.69	4.99
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.69	4.99
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	42,727	37,426
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.142	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.156	-	0.858	1.000	0.858	0.142	0.962	1.030	1.060
2	0.171	-	0.724	1.000	0.724	0.276	0.925	1.061	1.124
3	0.186	-	0.601	1.000	0.601	0.399	0.889	1.093	1.191
4	0.203	-	0.489	1.000	0.489	0.511	0.855	1.126	1.262
5	0.220	-	0.390	1.000	0.390	0.610	0.822	1.159	1.338
6	0.238	-	0.304	1.000	0.304	0.696	0.790	1.194	1.419
7	0.257	-	0.232	1.000	0.232	0.768	0.760	1.230	1.504
8	0.276	-	0.172	1.000	0.172	0.828	0.731	1.267	1.594
9	0.297	-	0.125	1.000	0.125	0.875	0.703	1.305	1.689
10	0.317	-	0.088	1.000	0.088	0.912	0.676	1.344	1.791
11	0.339	-	0.060	1.000	0.060	0.940	0.650	1.384	1.898
12	0.361	-	0.040	1.000	0.040	0.960	0.625	1.426	2.012
13	0.384	-	0.025	1.000	0.025	0.975	0.601	1.469	2.133
14	0.405	-	0.016	1.000	0.016	0.984	0.577	1.513	2.261
15	0.425	-	0.009	1.000	0.009	0.991	0.555	1.558	2.397
16	0.444	-	0.005	1.000	0.005	0.995	0.534	1.605	2.540
17	0.464	-	0.003	1.000	0.003	0.997	0.513	1.653	2.693
18	0.482	-	0.002	1.000	0.002	0.998	0.494	1.702	2.854
19	0.495	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	1.000	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	82		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/1/1985		
(15)	**DATE OF FILING**	11/25/1985		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	75	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	18.37	13.03
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	18.37	13.03
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	137,919	97,817
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.023	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.025	-	0.977	1.000	0.977	0.023	0.962	1.030	1.060
2	0.028	-	0.953	1.000	0.953	0.047	0.925	1.061	1.124
3	0.032	-	0.926	1.000	0.926	0.074	0.889	1.093	1.191
4	0.035	-	0.896	1.000	0.896	0.104	0.855	1.126	1.262
5	0.039	-	0.864	1.000	0.864	0.136	0.822	1.159	1.338
6	0.044	-	0.830	1.000	0.830	0.170	0.790	1.194	1.419
7	0.049	-	0.794	1.000	0.794	0.206	0.760	1.230	1.504
8	0.055	-	0.755	1.000	0.755	0.245	0.731	1.267	1.594
9	0.061	-	0.713	1.000	0.713	0.287	0.703	1.305	1.689
10	0.068	-	0.670	1.000	0.670	0.330	0.676	1.344	1.791
11	0.075	-	0.625	1.000	0.625	0.375	0.650	1.384	1.898
12	0.084	-	0.578	1.000	0.578	0.422	0.625	1.426	2.012
13	0.094	-	0.529	1.000	0.529	0.471	0.601	1.469	2.133
14	0.105	-	0.479	1.000	0.479	0.521	0.577	1.513	2.261
15	0.116	-	0.429	1.000	0.429	0.571	0.555	1.558	2.397
16	0.129	-	0.379	1.000	0.379	0.621	0.534	1.605	2.540
17	0.142	-	0.330	1.000	0.330	0.670	0.513	1.653	2.693
18	0.156	-	0.284	1.000	0.284	0.716	0.494	1.702	2.854
19	0.171	-	0.239	1.000	0.239	0.761	0.475	1.754	3.026
20	0.186	-	0.199	1.000	0.199	0.801	0.456	1.806	3.207
21	0.203	-	0.162	1.000	0.162	0.838	0.439	1.860	3.400
22	0.220	-	0.129	1.000	0.129	0.871	0.422	1.916	3.604
23	0.238	-	0.101	1.000	0.101	0.899	0.406	1.974	3.820
24	0.257	-	0.077	1.000	0.077	0.923	0.390	2.033	4.049
25	0.276	-	0.057	1.000	0.057	0.943	0.375	2.094	4.292
26	0.297	-	0.041	1.000	0.041	0.959	0.361	2.157	4.549
27	0.317	-	0.029	1.000	0.029	0.971	0.347	2.221	4.822
28	0.339	-	0.020	1.000	0.020	0.980	0.333	2.288	5.112
29	0.361	-	0.013	1.000	0.013	0.987	0.321	2.357	5.418
30	0.384	-	0.008	1.000	0.008	0.992	0.308	2.427	5.743
31	0.405	-	0.005	1.000	0.005	0.995	0.296	2.500	6.088
32	0.425	-	0.003	1.000	0.003	0.997	0.285	2.575	6.453
33	0.444	-	0.002	1.000	0.002	0.998	0.274	2.652	6.841
34	0.464	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.482	-	0.001	1.000	0.001	0.999	0.253	2.814	7.686
36	0.495	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	1.000	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
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119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
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(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	83		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	12/1/1987		
(15)	**DATE OF FILING**	2/16/1988		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	75	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	18.37	13.03
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	18.37	13.03
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	137,919	97,817
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.023	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.025	-	0.977	1.000	0.977	0.023	0.962	1.030	1.060
2	0.028	-	0.953	1.000	0.953	0.047	0.925	1.061	1.124
3	0.032	-	0.926	1.000	0.926	0.074	0.889	1.093	1.191
4	0.035	-	0.896	1.000	0.896	0.104	0.855	1.126	1.262
5	0.039	-	0.864	1.000	0.864	0.136	0.822	1.159	1.338
6	0.044	-	0.830	1.000	0.830	0.170	0.790	1.194	1.419
7	0.049	-	0.794	1.000	0.794	0.206	0.760	1.230	1.504
8	0.055	-	0.755	1.000	0.755	0.245	0.731	1.267	1.594
9	0.061	-	0.713	1.000	0.713	0.287	0.703	1.305	1.689
10	0.068	-	0.670	1.000	0.670	0.330	0.676	1.344	1.791
11	0.075	-	0.625	1.000	0.625	0.375	0.650	1.384	1.898
12	0.084	-	0.578	1.000	0.578	0.422	0.625	1.426	2.012
13	0.094	-	0.529	1.000	0.529	0.471	0.601	1.469	2.133
14	0.105	-	0.479	1.000	0.479	0.521	0.577	1.513	2.261
15	0.116	-	0.429	1.000	0.429	0.571	0.555	1.558	2.397
16	0.129	-	0.379	1.000	0.379	0.621	0.534	1.605	2.540
17	0.142	-	0.330	1.000	0.330	0.670	0.513	1.653	2.693
18	0.156	-	0.284	1.000	0.284	0.716	0.494	1.702	2.854
19	0.171	-	0.239	1.000	0.239	0.761	0.475	1.754	3.026
20	0.186	-	0.199	1.000	0.199	0.801	0.456	1.806	3.207
21	0.203	-	0.162	1.000	0.162	0.838	0.439	1.860	3.400
22	0.220	-	0.129	1.000	0.129	0.871	0.422	1.916	3.604
23	0.238	-	0.101	1.000	0.101	0.899	0.406	1.974	3.820
24	0.257	-	0.077	1.000	0.077	0.923	0.390	2.033	4.049
25	0.276	-	0.057	1.000	0.057	0.943	0.375	2.094	4.292
26	0.297	-	0.041	1.000	0.041	0.959	0.361	2.157	4.549
27	0.317	-	0.029	1.000	0.029	0.971	0.347	2.221	4.822
28	0.339	-	0.020	1.000	0.020	0.980	0.333	2.288	5.112
29	0.361	-	0.013	1.000	0.013	0.987	0.321	2.357	5.418
30	0.384	-	0.008	1.000	0.008	0.992	0.308	2.427	5.743
31	0.405	-	0.005	1.000	0.005	0.995	0.296	2.500	6.088
32	0.425	-	0.003	1.000	0.003	0.997	0.285	2.575	6.453
33	0.444	-	0.002	1.000	0.002	0.998	0.274	2.652	6.841
34	0.464	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.482	-	0.001	1.000	0.001	0.999	0.253	2.814	7.686
36	0.495	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	1.000	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	84	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	4/1/1989	
(15)	**DATE OF FILING**	5/11/1989	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	69	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	26.13	16.81
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	26.13	16.81
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,132.28	54.88
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	196,189	126,188
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.013	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.014	-	0.987	1.000	0.987	0.013	0.962	1.030	1.060
2	0.015	-	0.974	1.000	0.974	0.026	0.925	1.061	1.124
3	0.017	-	0.959	1.000	0.959	0.041	0.889	1.093	1.191
4	0.018	-	0.943	1.000	0.943	0.057	0.855	1.126	1.262
5	0.020	-	0.926	1.000	0.926	0.074	0.822	1.159	1.338
6	0.023	-	0.907	1.000	0.907	0.093	0.790	1.194	1.419
7	0.025	-	0.887	1.000	0.887	0.113	0.760	1.230	1.504
8	0.028	-	0.864	1.000	0.864	0.136	0.731	1.267	1.594
9	0.032	-	0.840	1.000	0.840	0.160	0.703	1.305	1.689
10	0.035	-	0.813	1.000	0.813	0.187	0.676	1.344	1.791
11	0.039	-	0.784	1.000	0.784	0.216	0.650	1.384	1.898
12	0.044	-	0.753	1.000	0.753	0.247	0.625	1.426	2.012
13	0.049	-	0.720	1.000	0.720	0.280	0.601	1.469	2.133
14	0.055	-	0.685	1.000	0.685	0.315	0.577	1.513	2.261
15	0.061	-	0.647	1.000	0.647	0.353	0.555	1.558	2.397
16	0.068	-	0.608	1.000	0.608	0.392	0.534	1.605	2.540
17	0.075	-	0.567	1.000	0.567	0.433	0.513	1.653	2.693
18	0.084	-	0.524	1.000	0.524	0.476	0.494	1.702	2.854
19	0.094	-	0.480	1.000	0.480	0.520	0.475	1.754	3.026
20	0.105	-	0.435	1.000	0.435	0.565	0.456	1.806	3.207
21	0.116	-	0.389	1.000	0.389	0.611	0.439	1.860	3.400
22	0.129	-	0.344	1.000	0.344	0.656	0.422	1.916	3.604
23	0.142	-	0.300	1.000	0.300	0.700	0.406	1.974	3.820
24	0.156	-	0.257	1.000	0.257	0.743	0.390	2.033	4.049
25	0.171	-	0.217	1.000	0.217	0.783	0.375	2.094	4.292
26	0.186	-	0.180	1.000	0.180	0.820	0.361	2.157	4.549
27	0.203	-	0.147	1.000	0.147	0.853	0.347	2.221	4.822
28	0.220	-	0.117	1.000	0.117	0.883	0.333	2.288	5.112
29	0.238	-	0.091	1.000	0.091	0.909	0.321	2.357	5.418
30	0.257	-	0.070	1.000	0.070	0.930	0.308	2.427	5.743
31	0.276	-	0.052	1.000	0.052	0.948	0.296	2.500	6.088
32	0.297	-	0.037	1.000	0.037	0.963	0.285	2.575	6.453
33	0.317	-	0.026	1.000	0.026	0.974	0.274	2.652	6.841
34	0.339	-	0.018	1.000	0.018	0.982	0.264	2.732	7.251
35	0.361	-	0.012	1.000	0.012	0.988	0.253	2.814	7.686
36	0.384	-	0.008	1.000	0.008	0.992	0.244	2.898	8.147
37	0.405	-	0.005	1.000	0.005	0.995	0.234	2.985	8.636
38	0.425	-	0.003	1.000	0.003	0.997	0.225	3.075	9.154
39	0.444	-	0.002	1.000	0.002	0.998	0.217	3.167	9.704
40	0.464	-	0.001	1.000	0.001	0.999	0.208	3.262	10.286
41	0.482	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.495	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.500	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	0.500	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	1.000	-	0.000	1.000	0.000	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
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83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
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95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
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106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
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117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	85	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	3/27/1991	
(15)	**DATE OF FILING**	11/15/1991	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	77	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	16.19	11.84
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	16.19	11.84
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,142.22	59.85
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	121,569	88,880
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.028	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.032	-	0.972	1.000	0.972	0.028	0.962	1.030	1.060
2	0.035	-	0.941	1.000	0.941	0.059	0.925	1.061	1.124
3	0.039	-	0.908	1.000	0.908	0.092	0.889	1.093	1.191
4	0.044	-	0.872	1.000	0.872	0.128	0.855	1.126	1.262
5	0.049	-	0.833	1.000	0.833	0.167	0.822	1.159	1.338
6	0.055	-	0.793	1.000	0.793	0.207	0.790	1.194	1.419
7	0.061	-	0.749	1.000	0.749	0.251	0.760	1.230	1.504
8	0.068	-	0.703	1.000	0.703	0.297	0.731	1.267	1.594
9	0.075	-	0.656	1.000	0.656	0.344	0.703	1.305	1.689
10	0.084	-	0.606	1.000	0.606	0.394	0.676	1.344	1.791
11	0.094	-	0.555	1.000	0.555	0.445	0.650	1.384	1.898
12	0.105	-	0.503	1.000	0.503	0.497	0.625	1.426	2.012
13	0.116	-	0.451	1.000	0.451	0.549	0.601	1.469	2.133
14	0.129	-	0.398	1.000	0.398	0.602	0.577	1.513	2.261
15	0.142	-	0.347	1.000	0.347	0.653	0.555	1.558	2.397
16	0.156	-	0.298	1.000	0.298	0.702	0.534	1.605	2.540
17	0.171	-	0.251	1.000	0.251	0.749	0.513	1.653	2.693
18	0.186	-	0.208	1.000	0.208	0.792	0.494	1.702	2.854
19	0.203	-	0.170	1.000	0.170	0.830	0.475	1.754	3.026
20	0.220	-	0.135	1.000	0.135	0.865	0.456	1.806	3.207
21	0.238	-	0.106	1.000	0.106	0.894	0.439	1.860	3.400
22	0.257	-	0.080	1.000	0.080	0.920	0.422	1.916	3.604
23	0.276	-	0.060	1.000	0.060	0.940	0.406	1.974	3.820
24	0.297	-	0.043	1.000	0.043	0.957	0.390	2.033	4.049
25	0.317	-	0.030	1.000	0.030	0.970	0.375	2.094	4.292
26	0.339	-	0.021	1.000	0.021	0.979	0.361	2.157	4.549
27	0.361	-	0.014	1.000	0.014	0.986	0.347	2.221	4.822
28	0.384	-	0.009	1.000	0.009	0.991	0.333	2.288	5.112
29	0.405	-	0.005	1.000	0.005	0.995	0.321	2.357	5.418
30	0.425	-	0.003	1.000	0.003	0.997	0.308	2.427	5.743
31	0.444	-	0.002	1.000	0.002	0.998	0.296	2.500	6.088
32	0.464	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.482	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.495	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	1.000	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	86	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	4/23/1993	
(15)	**DATE OF FILING**	6/28/1993	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	90	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.85	66.05
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	49,242	42,343
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
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(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	87	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	6/1/1993	
(15)	**DATE OF FILING**	6/28/1993	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	68	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	27.60	17.45
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	27.60	17.45
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,130.81	54.24
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	207,205	131,012
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.012	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.013	-	0.988	1.000	0.988	0.012	0.962	1.030	1.060
2	0.014	-	0.976	1.000	0.976	0.024	0.925	1.061	1.124
3	0.015	-	0.962	1.000	0.962	0.038	0.889	1.093	1.191
4	0.017	-	0.948	1.000	0.948	0.052	0.855	1.126	1.262
5	0.018	-	0.932	1.000	0.932	0.068	0.822	1.159	1.338
6	0.020	-	0.915	1.000	0.915	0.085	0.790	1.194	1.419
7	0.023	-	0.896	1.000	0.896	0.104	0.760	1.230	1.504
8	0.025	-	0.876	1.000	0.876	0.124	0.731	1.267	1.594
9	0.028	-	0.854	1.000	0.854	0.146	0.703	1.305	1.689
10	0.032	-	0.830	1.000	0.830	0.170	0.676	1.344	1.791
11	0.035	-	0.803	1.000	0.803	0.197	0.650	1.384	1.898
12	0.039	-	0.775	1.000	0.775	0.225	0.625	1.426	2.012
13	0.044	-	0.744	1.000	0.744	0.256	0.601	1.469	2.133
14	0.049	-	0.712	1.000	0.712	0.288	0.577	1.513	2.261
15	0.055	-	0.677	1.000	0.677	0.323	0.555	1.558	2.397
16	0.061	-	0.640	1.000	0.640	0.360	0.534	1.605	2.540
17	0.068	-	0.601	1.000	0.601	0.399	0.513	1.653	2.693
18	0.075	-	0.560	1.000	0.560	0.440	0.494	1.702	2.854
19	0.084	-	0.518	1.000	0.518	0.482	0.475	1.754	3.026
20	0.094	-	0.474	1.000	0.474	0.526	0.456	1.806	3.207
21	0.105	-	0.430	1.000	0.430	0.570	0.439	1.860	3.400
22	0.116	-	0.385	1.000	0.385	0.615	0.422	1.916	3.604
23	0.129	-	0.340	1.000	0.340	0.660	0.406	1.974	3.820
24	0.142	-	0.296	1.000	0.296	0.704	0.390	2.033	4.049
25	0.156	-	0.254	1.000	0.254	0.746	0.375	2.094	4.292
26	0.171	-	0.215	1.000	0.215	0.785	0.361	2.157	4.549
27	0.186	-	0.178	1.000	0.178	0.822	0.347	2.221	4.822
28	0.203	-	0.145	1.000	0.145	0.855	0.333	2.288	5.112
29	0.220	-	0.115	1.000	0.115	0.885	0.321	2.357	5.418
30	0.238	-	0.090	1.000	0.090	0.910	0.308	2.427	5.743
31	0.257	-	0.069	1.000	0.069	0.931	0.296	2.500	6.088
32	0.276	-	0.051	1.000	0.051	0.949	0.285	2.575	6.453
33	0.297	-	0.037	1.000	0.037	0.963	0.274	2.652	6.841
34	0.317	-	0.026	1.000	0.026	0.974	0.264	2.732	7.251
35	0.339	-	0.018	1.000	0.018	0.982	0.253	2.814	7.686
36	0.361	-	0.012	1.000	0.012	0.988	0.244	2.898	8.147
37	0.384	-	0.008	1.000	0.008	0.992	0.234	2.985	8.636
38	0.405	-	0.005	1.000	0.005	0.995	0.225	3.075	9.154
39	0.425	-	0.003	1.000	0.003	0.997	0.217	3.167	9.704
40	0.444	-	0.002	1.000	0.002	0.998	0.208	3.262	10.286
41	0.464	-	0.001	1.000	0.001	0.999	0.200	3.360	10.903
42	0.482	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.495	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.500	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	0.500	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	0.500	-	0.000	1.000	0.000	1.000	0.135	4.515	19.525
52	1.000	-	0.000	1.000	0.000	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
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74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
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(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	88		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/1/1995		
(15)	**DATE OF FILING**	5/16/1995		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**	0		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.85	66.05
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,507	7,507
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	49,242	42,343
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2011

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
17	0.16%	0.03%
18	0.16%	0.03%
19	0.17%	0.03%
20	0.18%	0.03%
21	0.18%	0.03%
22	0.19%	0.03%
23	0.20%	0.03%
24	0.21%	0.03%
25	0.22%	0.03%
26	0.23%	0.03%
27	0.24%	0.03%
28	0.24%	0.03%
29	0.25%	0.03%
30	0.25%	0.04%
31	0.25%	0.04%
32	0.25%	0.04%
33	0.25%	0.04%
34	0.25%	0.04%
35	0.26%	0.05%
36	0.26%	0.05%
37	0.27%	0.06%
38	0.28%	0.06%
39	0.30%	0.07%
40	0.34%	0.07%
41	0.38%	0.08%
42	0.43%	0.08%
43	0.48%	0.09%
44	0.55%	0.09%
45	0.63%	0.10%
46	0.66%	0.10%
47	0.69%	0.11%
48	0.72%	0.12%
49	0.77%	0.13%
50	0.84%	0.14%
51	0.93%	0.16%

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
52	1.04%	0.17%
53	1.16%	0.19%
54	1.29%	0.21%
55	1.41%	0.23%
56	1.54%	0.26%
57	1.68%	0.29%
58	1.83%	0.34%
59	2.00%	0.39%
60	2.20%	0.44%
61	2.42%	0.51%
62	2.67%	0.58%
63	2.96%	0.67%
64	3.29%	0.76%
65	3.67%	0.86%
66	4.10%	0.97%
67	4.55%	1.08%
68	5.02%	1.18%
69	5.48%	1.27%
70	5.94%	1.37%
71	6.40%	1.50%
72	6.87%	1.65%
73	7.38%	1.83%
74	7.96%	2.04%
75	8.62%	2.27%
76	9.38%	2.53%
77	10.22%	2.84%
78	11.13%	3.17%
79	12.09%	3.54%
80	13.08%	3.94%
81	14.08%	4.40%
82	15.11%	4.92%
83	16.18%	5.49%
84	17.35%	6.10%
85	18.64%	6.77%
86	20.11%	7.53%
87	21.79%	8.40%
88	23.69%	9.38%
89	25.84%	10.46%
90	28.24%	11.63%
91	30.92%	12.88%

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
92	33.86%	14.20%
93	37.10%	15.59%
94	40.62%	17.07%
95	44.45%	18.62%
96	47.48%	20.25%
97	50.61%	21.97%
98	53.92%	23.77%
99	57.55%	25.67%
100	61.58%	27.64%
101	66.14%	29.66%
102	71.34%	31.71%
103	77.28%	33.85%
104	84.07%	36.10%
105	91.83%	38.36%
106	100.00%	40.52%
107		42.48%
108		44.44%
109		46.45%
110		48.23%
111		49.51%
112		50.00%
113		50.00%
114		50.00%
115		50.00%
116		50.00%
117		50.00%
118		50.00%
119		50.00%
120		100.00%

(1) AGE OF CLAIMANT

(2) & (3) PROBABILITY OF DYING IN A GIVEN YEAR

NOTE: MORTALITY RATES BASED ON DELOITTE STUDY TITLED “OHIO BUREAU OF WORKERS' COMPENSATION, DOCUMENTATION OF 2010 MORTALITY STUDY” DATED SEPTEMBER 10, 2010.

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SUMMARY OF UNPAID LOSSES

		NOMINAL			DISCOUNTED		
		LOW	POINT	HIGH	LOW	POINT	HIGH
(1)	**AWARDED CLAIMS**		**19,326,315**			**12,480,453**	
	PENDING & IBNR CLAIMS						
(2)	OH DEPT. OF LABOR DATA METHOD	10,212,332	15,710,414	21,208,496	2,845,352	4,372,571	5,899,789
(3)	OH EMPLOYEE SURVEY DATA METHOD	264,570,867	331,138,568	397,706,269	78,901,696	98,624,099	118,346,501
(4)	**SELECTED PENDING & IBNR CLAIM**	**73,801,966**	**188,691,896**	**303,581,826**	**21,859,438**	**56,047,131**	**90,234,823**
	ACTIVE MINERS						
(5)	**BASED ON OH EMPLOYEEE SURVEY DATA**	**204,278,168**	**255,278,214**	**306,278,260**	**59,273,150**	**73,919,087**	**88,565,023**
(6)	**TOTAL UNPAID LOSSES (FULL YEAR DISCOUNT)**	**297,406,449**	**463,296,425**	**629,186,401**	**93,613,041**	**142,446,670**	**191,280,299**
(7)	**HALF YEAR DISCOUNT ADJUSTMENT**					1.02	
(8)	**TOTAL UNPAID LOSSES**				**95,466,944**	**145,267,670**	**195,068,396**

Note: Active miner is 100% of the liability (e.g. not pro-rated for years of service)

(1) SECTION 8A, EXHIBIT 2, SHEET 1, COL. (12) & (13)
(2) SECTION 8A, EXHIBIT 3, SHEET 1, SUM OF ROW (J) FOR NOMINAL & SUM OF ROW (K) FOR DISCOUNTED
(3) LOW ESTIMATE FROM SECTION 8A, EXHIBIT 4, SHEET 1A, COL. (14) & (14A)
HIGH ESTIMATE FROM SECTION 8A, EXHIBIT 4, SHEET 1B, COL. (14) & (14A)
(4) SELECTED BY DELOITTE; LOW = 75% * (2) + 25% * (3); HIGH = 25% * (2) + 75% * (3)
(5) LOW ESTIMATES FROM SECTION 8A, EXHIBIT 5, SHEET 1A, COL. (14) & (14A)
HIGH ESTIMATE FROM SECTION 8A, EXHIBIT 5, SHEET 1B, COL. (14) & (14A)
(6) = (1) + (4) + (5)
(7) PAYMENTS ASSUMED TO BE MADE AT THE MIDDLE OF EACH YEAR; =1.04^.5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
SUMMARY OF CLAIMS CURRENTLY RECEIVING BENEFITS
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 2
SHEET 1

							ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
1	00-539873	IW	10/1/2000	10/16/2000	12/13/1943		95,359	73,189	98,179	72,737	193,538	145,926
2	04-801185	IW	1/9/2004	1/15/2004	7/31/1934		55,229	46,797	52,031	43,361	107,260	90,158
3	08-805748	IW	1/31/2008	2/4/2008	2/11/1947		113,478	83,836	121,034	85,585	234,512	169,420
4	08-873076	IW	11/4/2008	11/10/2008	2/5/1947		113,478	83,836	121,034	85,585	234,512	169,420
5	10-866075	IW	12/17/2010	12/23/2010	1/2/1953		160,655	109,010	185,657	118,126	346,313	227,136
6	97-579377	IW	9/1/1997	10/28/1997	10/17/1943		95,359	73,189	98,179	72,737	193,538	145,926
7	OD175963	IW	11/1/1979	12/4/1979	3/15/1917		15,753	15,206	13,316	12,832	29,069	28,038
8	OD192577	IW	7/1/1987	8/18/1987	6/30/1934		51,890	44,386	48,484	40,851	100,374	85,237
9	OD197158	IW	3/1/1989	3/9/1989	1/27/1942		84,930	66,767	85,545	65,241	170,475	132,008
10	OD223258	IW	11/1/1992	11/30/1992	7/17/1932		48,769	42,100	45,206	38,495	93,975	80,596
11	OD237132	IW	4/1/1993	3/23/1995	10/5/1942		90,011	69,927	91,648	68,903	181,659	138,831
12	10-813915	IW	9/1/2009	3/30/2010	6/6/1942		84,930	66,767	85,545	65,241	170,475	132,008
13	01-807428	IW + Dep 1	2/1/2001	3/5/2001	6/28/1931	12/31/1926	95,008	79,266	39,313	34,161	134,322	113,427
14	02-819832	IW + Dep 1	4/26/2002	4/30/2002	7/16/1945	7/12/1946	298,142	189,266	112,805	81,050	410,947	270,316
15	02-855721	IW + Dep 1	9/13/2002	9/26/2002	4/23/1958	4/14/1962	602,608	294,083	262,819	151,321	865,428	445,404
16	03-805433	IW + Dep 1	1/24/2003	2/10/2003	12/10/1951	12/14/1950	378,443	223,540	172,948	112,120	551,391	335,660
17	03-809998	IW + Dep 1	2/26/2003	3/3/2003	5/4/1941	4/2/1960	488,522	246,379	79,809	61,718	568,331	308,098
18	03-870774	IW + Dep 1	11/14/2003	11/17/2003	6/11/1946	1/22/1953	379,783	218,797	112,805	81,050	492,588	299,848
19	03-875844	IW + Dep 1	12/8/2003	12/9/2003	1/1/1950	6/12/1954	412,246	233,022	149,932	100,775	562,179	333,797
20	05-873765	IW + Dep 1	10/20/2005	10/21/2005	9/14/1948	11/15/1946	311,715	196,643	139,571	95,455	451,285	292,098
21	06-861633	IW + Dep 1	8/22/2006	8/30/2006	7/25/1947	11/21/1950	358,332	213,200	129,945	90,387	488,277	303,588
22	07-830602	IW + Dep 1	5/8/2007	5/11/2007	10/29/1942	10/22/1944	264,236	173,538	91,648	68,903	355,884	242,441
23	07-872547	IW + Dep 1	10/30/2007	10/30/2007	8/26/1939	1/19/1942	223,332	153,794	74,401	58,319	297,733	212,113
24	09-815322	IW + Dep 1	4/1/2009	4/7/2009	2/8/1938	7/25/1939	198,513	140,930	64,512	51,889	263,025	192,819
25	09-816901	IW + Dep 1	4/9/2009	4/15/2009	6/10/1942	12/21/1934	171,659	128,240	85,545	65,241	257,203	193,480
26	09-865411	IW + Dep 1	12/28/2009	1/1/2010	7/27/1947	11/21/1960	530,376	264,354	129,945	90,387	660,321	354,741
27	96-581807	IW + Dep 1	1/1/1986	11/5/1996	4/8/1941	1/30/1954	380,164	214,754	79,809	61,718	459,973	276,473
28	98-412907	IW + Dep 1	5/1/1998	6/3/1998	11/26/1934	6/15/1939	182,109	131,367	52,031	43,361	234,140	174,728
29	98-425789	IW + Dep 1	5/1/1998	6/16/1998	2/5/1947	3/6/1943	259,156	173,505	121,034	85,585	380,190	259,090
30	OD175295	IW + Dep 1	6/1/1979	8/17/1979	10/4/1916	5/17/1919	47,351	42,786	13,316	12,832	60,666	55,618
31	OD176789	IW + Dep 1	12/1/1975	4/18/1980	7/2/1920	2/26/1938	152,903	110,991	17,970	16,960	170,872	127,950
32	OD177268	IW + Dep 1	4/4/1975	6/24/1980	4/2/1931	7/10/1935	149,358	112,486	39,313	34,161	188,672	146,647
33	OD177448	IW + Dep 1	11/14/1979	7/28/1980	1/12/1936	3/5/1942	212,875	146,847	55,876	46,038	268,752	192,885
34	OD185188	IW + Dep 1	10/1/1976	10/2/1976	10/11/1934	8/9/1935	157,358	118,252	52,031	43,361	209,390	161,613
35	OD191266	IW + Dep 1	2/1/1987	3/2/1987	12/29/1930	8/12/1930	115,464	92,574	39,313	34,161	154,777	126,735
36	OD206376	IW + Dep 1	11/1/1990	1/22/1991	4/28/1934		208,691	143,903	48,484	40,851	257,175	184,754
37	OD207497	IW + Dep 1	1/1/1991	4/2/1991	3/6/1939		168,300	125,622	69,302	55,039	237,602	180,661
38	OD233829	IW + Dep 1	5/1/1992	8/30/1994	3/3/1938		181,025	132,062	64,512	51,889	245,536	183,951
39	OD234543	IW + Dep 1	3/29/1994	9/27/1994	9/6/1919		94,212	76,444	16,561	15,725	110,773	92,168
40	OD237125	IW + Dep 1	1/1/1995	1/31/1995	4/12/1945		519,918	258,410	105,207	76,775	625,125	335,185
41	OD237127	IW + Dep 1	10/1/1993	1/21/1995	5/23/1937		205,343	143,778	60,035	48,883	265,378	192,661
42	OD237603	IW + Dep 1	8/1/1994	11/22/1995	7/21/1936		178,300	130,237	60,035	48,883	238,335	179,120

INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
							NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
43	OD237647	IW + Dep 1	4/1/1996	4/16/1996	10/5/1942		264,236	173,538	91,648	68,903	355,884	242,441
44	01-868437	IW + Dep 2	10/11/2001	11/29/2001	2/27/1978		844,435	386,082	967,379	342,542	1,811,814	728,624
45	00-503848	Survivor	12/1/1999	9/6/2000	8/30/1932		102,883	78,535	-	-	102,883	78,535
46	00-809637	Survivor	12/1/2000	1/23/2001	12/2/1940		170,297	115,152	-	-	170,297	115,152
47	05-881527	Survivor	10/26/2005	11/22/2005	6/28/1924		54,509	46,408	-	-	54,509	46,408
48	09-823977	Survivor	11/30/2008	5/26/2009	9/23/1949		277,271	160,450	-	-	277,271	160,450
49	OD171415	Survivor	7/1/1976	8/1/1976	2/14/1916		31,365	28,555	-	-	31,365	28,555
50	OD174370	Survivor	10/1/1981	3/22/1982	3/14/1930		83,803	66,582	-	-	83,803	66,582
51	OD174371	Survivor	3/1/1981	3/2/1981	10/14/1922		50,719	43,613	-	-	50,719	43,613
52	OD175133	Survivor	11/1/1978	6/8/1979	8/24/1925		63,028	52,531	-	-	63,028	52,531
53	OD175142	Survivor	4/1/1978	4/8/1978	4/1/1964		532,969	235,024	-	-	532,969	235,024
54	OD175147	Survivor	5/1/1979	5/18/1979	5/2/1929		78,141	62,869	-	-	78,141	62,869
55	OD175883	Survivor	6/1/1980	11/23/1980	11/2/1922		50,719	43,613	-	-	50,719	43,613
56	OD175964	Survivor	2/1/1980	12/4/1980	11/18/1927		72,797	59,287	-	-	72,797	59,287
57	OD176020	Survivor	2/1/1979	12/11/1979	2/28/1923		50,719	43,613	-	-	50,719	43,613
58	OD176162	Survivor	1/1/1979	1/25/1980	9/21/1929		83,803	66,582	-	-	83,803	66,582
59	OD176330	Survivor	11/1/1978	2/18/1980	7/7/1918		38,320	34,131	-	-	38,320	34,131
60	OD176344	Survivor	2/1/1977	2/25/1980	2/12/1940		160,479	110,283	-	-	160,479	110,283
61	OD176348	Survivor	4/1/1981	5/26/1981	8/23/1923		54,509	46,408	-	-	54,509	46,408
62	OD176944	Survivor	8/15/1972	5/7/1980	9/26/1927		72,797	59,287	-	-	72,797	59,287
63	OD177039	Survivor	4/17/1973	5/21/1980	8/22/1925		63,028	52,531	-	-	63,028	52,531
64	OD177118	Survivor	5/1/1976	1/4/1980	1/7/1919		38,320	34,131	-	-	38,320	34,131
65	OD177198	Survivor	10/1/1975	6/17/1980	1/7/1928		72,797	59,287	-	-	72,797	59,287
66	OD177561	Survivor	5/29/1977	8/19/1980	10/17/1925		63,028	52,531	-	-	63,028	52,531
67	OD178112	Survivor	4/1/1980	12/4/1980	8/9/1925		63,028	52,531	-	-	63,028	52,531
68	OD178157	Survivor	10/20/1980	12/12/1980	4/19/1930		83,803	66,582	-	-	83,803	66,582
69	OD178239	Survivor	9/8/1980	1/6/1981	11/7/1937		142,057	100,751	-	-	142,057	100,751
70	OD178320	Survivor	6/1/1978	1/29/1981	11/15/1915		31,365	28,555	-	-	31,365	28,555
71	OD178525	Survivor	2/2/1981	3/2/1981	1/12/1928		72,797	59,287	-	-	72,797	59,287
72	OD178640	Survivor	2/21/1978	3/26/1981	3/2/1926		63,028	52,531	-	-	63,028	52,531
73	OD178643	Survivor	2/1/1980	3/24/1981	6/22/1923		50,719	43,613	-	-	50,719	43,613
74	OD178739	Survivor	7/12/1977	4/8/1981	12/31/1921		47,225	40,995	-	-	47,225	40,995
75	OD178740	Survivor	7/1/1976	4/3/1981	7/1/1920		41,047	36,264	-	-	41,047	36,264
76	OD178856	Survivor	1/1/1974	4/30/1981	11/27/1961		488,927	224,543	-	-	488,927	224,543
77	OD178910	Survivor	9/1/1981	9/2/1981	6/11/1936		125,216	91,546	-	-	125,216	91,546
78	OD180137	Survivor	3/1/1980	2/10/1982	10/30/1925		63,028	52,531	-	-	63,028	52,531
79	OD183041	Survivor	9/1/1983	9/2/1983	6/6/1927		67,760	55,838	-	-	67,760	55,838
80	OD184191	Survivor	3/1/1984	4/12/1984	11/12/1934		117,392	87,098	-	-	117,392	87,098
81	OD186400	Survivor	3/1/1976	4/8/1985	11/4/1919		41,047	36,264	-	-	41,047	36,264
82	OD188169	Survivor	11/1/1985	11/25/1985	12/8/1936		133,439	96,102	-	-	133,439	96,102
83	OD193861	Survivor	12/1/1987	2/16/1988	7/26/1936		133,439	96,102	-	-	133,439	96,102
84	OD198101	Survivor	4/1/1989	5/11/1989	6/10/1943		191,111	125,017	-	-	191,111	125,017
85	OD211061	Survivor	3/27/1991	11/15/1991	12/30/1934		117,392	87,098	-	-	117,392	87,098
86	OD227746	Survivor	4/23/1993	6/28/1993	8/9/1921		47,225	40,995	-	-	47,225	40,995
87	OD227747	Survivor	6/1/1993	6/28/1993	1/26/1944		202,075	129,974	-	-	202,075	129,974
88	OD237508	Survivor	4/1/1995	5/16/1995	10/21/1921		47,225	40,995	-	-	47,225	40,995

INDEX	CLAIM NUMBER	CLAIMANT TYPE	DATE OF INJURY	DATE REPORTED	DOB 1	DOB 2	ESTIMATED LIABILITY - INDEMNITY		ESTIMATED LIABILITY - MEDICAL		ESTIMATED LIABILITY - TOTAL	
							NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED	NOMINAL	DISCOUNTED
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
TOTAL LIABILITY FOR CLAIMS CURRENTLY RECEIVING BENEFITS							**14,680,603**	**9,440,315**	**4,645,712**	**3,040,138**	**19,326,315**	**12,480,453**

(1)	CLAIM INDEX NUMBER	(8)	SECTION 8A, EXHIBIT 7
(2)	PROVIDED BY BWC	(9)	SECTION 8A, EXHIBIT 7
(3)	PROVIDED BY BWC	(10)	SECTION 8A, EXHIBIT 7
(4)	PROVIDED BY BWC	(11)	SECTION 8A, EXHIBIT 7
(5)	PROVIDED BY BWC	(12)	= (8) + (10)
(6)	PROVIDED BY BWC	(13)	= (9) + (11)
(7)	PROVIDED BY BWC		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

RESERVES FOR PENDING & IBNR CLAIMS BASED ON OH DEPT. OF LABOR DATA

		PENDING AND IBNR CLAIMS			
		LIVING MINER		LIVING WIDOW	
NUMBER OF CLAIMS		**LOW**	**HIGH**	**LOW**	**HIGH**
(A)	BASED ON OHIO DEPT. OF LABOR DATA	15	31	1	3
INDEMNITY BENEFIT PER CLAIM					
(B)	NOMINAL	260,281	260,281	110,368	110,368
(C)	DISCOUNTED	83,756	83,756	20,782	20,782
MEDICAL BENEFIT PER CLAIM					
(D)	NOMINAL	413,183	413,183		
(E)	DISCOUNTED	104,549	104,549		
PENDING + IBNR RESERVE FOR CLAIMS - INDEMNITY					
(F)	NOMINAL	3,904,214	8,068,710	110,368	331,105
(G)	DISCOUNTED	1,256,342	2,596,440	20,782	62,345
PENDING + IBNR RESERVE FOR CLAIMS - MEDICAL					
(H)	NOMINAL	6,197,749	12,808,682		
(I)	DISCOUNTED	1,568,228	3,241,004		
PENDING + IBNR RESERVE FOR CLAIMS - TOTAL					
(J)	NOMINAL	10,101,964	20,877,392	110,368	331,105
(K)	DISCOUNTED	2,824,570	5,837,444	20,782	62,345

(A)	LIVING MINER FROM SECTION 8A, EXHIBIT 3, SHEET 4.2	(G)	= (A) * (C)
	LIVING WIDOW FROM SECTION 8A, EXHIBIT 3, SHEET 7.2	(H)	= (A) * (D)
(B)	AVERAGE OF SECTION 8A, EXHIBIT 5, SHEET 1A, COL. (7) AND COL. (8) RESPECTIVELY	(I)	= (A) * (E)
(C)	AVERAGE OF SECTION 8A, EXHIBIT 5, SHEET 1A, COL. (7A) AND COL. (8A) RESPECTIVELY	(J)	= (F) + (H)
(D)	AVERAGE SECTION 8A, EXHIBIT 5, SHEET 1A, COL. (9)	(K)	= (G) + (I)
(E)	AVERAGE SECTION 8A, EXHIBIT 5, SHEET 1A, COL. (9A)		
(F)	= (A) * (B)		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
SHEET 2.1

Ohio Department of Labor Living Miner Filings, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	3	4	4	4	8	14	16	20	21	21	21	21	22	22	22	22	22	23	23	23	23
1971	0	0	0	0	2	2	2	9	13	18	18	18	18	18	18	18	19	19	19	19	19	19	19	20
1972	0	6	8	9	9	19	35	48	56	56	56	56	57	57	57	58	58	59	60	60	60	60	61	62
1973	16	18	20	23	27	38	44	47	47	47	47	47	47	47	47	47	47	48	48	48	49	49	51	51
1974	23	26	27	28	31	31	32	33	33	33	34	34	34	35	35	35	35	35	35	35	35	35	35	35
1975	17	20	21	24	24	24	24	24	24	25	25	25	25	26	26	26	27	27	28	29	30	30	30	30
1976	34	38	40	41	42	42	43	43	43	43	45	45	45	47	47	48	48	48	49	49	49	50	50	50
1977	21	22	23	23	23	24	24	24	25	26	26	27	27	28	29	31	31	31	32	32	32	32	32	32
1978	23	25	27	27	27	27	27	29	30	30	30	30	32	33	33	36	37	38	39	39	39	39	39	40
1979	31	33	33	33	33	33	34	38	38	39	39	39	40	40	40	41	41	41	41	41	42	42	42	42
1980	25	25	27	28	29	32	34	34	36	38	38	38	38	38	38	40	40	40	40	40	43	44	44	45
1981	9	11	12	12	13	15	15	15	16	16	16	16	16	16	17	18	18	19	19	19	19	19	19	20
1982	7	8	8	8	8	8	8	9	10	12	12	12	13	14	15	16	17	17	20	20	21	21	21	21
1983	9	9	9	9	9	10	10	10	11	12	12	12	12	12	12	12	12	13	14	16	17	17	17	17
1984	9	9	10	13	14	14	15	15	16	16	16	18	19	19	19	21	22	22	23	25	26	26	26	26
1985	10	15	16	18	21	21	21	21	22	24	26	26	27	27	27	27	27	28	29	29	30	30	30	30
1986	20	23	26	27	27	27	30	31	31	33	33	34	36	36	36	36	36	37	37	38	38	38	38	38
1987	17	20	22	26	27	30	33	36	36	37	38	38	40	40	42	45	45	45	46	47	49	52	53	53
1988	8	14	17	18	18	18	21	23	23	24	25	26	26	26	26	27	28	28	28	28	28	28	28	28
1989	5	7	9	10	10	11	11	12	13	13	13	13	14	14	16	17	17	17	17	17	17	18	19	
1990	8	9	11	11	15	18	18	19	20	21	24	24	25	26	28	31	32	33	34	42	43	44		
1991	7	12	15	16	17	18	18	18	18	20	24	24	25	27	29	30	30	31	31	33	33			
1992	6	8	13	16	18	21	22	25	25	27	28	29	30	31	33	34	35	35	36	38				
1993	4	5	7	8	9	9	9	12	13	14	16	16	16	17	18	18	19	19	20					
1994	8	10	11	13	15	16	18	19	19	20	20	22	22	23	23	24	24	24						
1995	1	1	1	4	5	7	8	8	8	8	8	8	9	9	9	10	10							
1996	1	1	3	3	3	4	5	5	5	5	5	5	5	6	6	6								
1997	2	3	3	3	3	3	3	3	4	4	6	7	7	7	7									
1998	2	2	3	4	5	5	5	5	7	7	7	8	9	9										
1999	2	2	5	7	8	9	9	9	9	9	9	9	9											
2000	1	1	1	4	4	4	5	5	6	6	6	6												
2001	5	11	19	21	21	23	26	29	31	36	38													
2002	4	9	13	15	17	17	18	18	22	24														
2003	2	2	2	2	2	2	3	4	5															
2004	0	1	1	1	3	3	3	3																
2005	2	3	3	3	3	5	5																	
2006	0	0	0	1	2	2																		
2007	4	5	5	6	6																			
2008	1	2	2	2																				
2009	2	5	5																					
2010	3	3																						
2011	1																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Miner Filings, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) CDF	(3) Indicated Ultimate Filings	(4) Selected Ultimate Filings
1970	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	1.000	23	23
1971	20	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21		21	1.000	21	21
1972	62	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63			63	1.000	63	63
1973	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51				51	1.000	51	51
1974	35	35	35	35	35	35	35	35	35	35	35	35	35	35					35	1.000	35	35
1975	30	30	30	30	30	30	30	30	30	30	30	30	30						30	1.000	30	30
1976	50	51	51	51	51	51	51	51	51	51	51	51							51	1.000	51	51
1977	32	32	32	33	34	35	35	35	35	35	35								35	1.000	35	35
1978	40	41	41	41	41	41	41	41	41	41									41	1.000	41	41
1979	42	42	42	43	43	43	44	44	44										44	1.000	44	44
1980	46	46	46	46	47	47	47	47											47	1.000	47	47
1981	20	20	20	20	21	21	21												21	1.000	21	21
1982	22	23	23	23	23	23													23	1.002	23	23
1983	17	17	17	17	17														17	1.004	17	17
1984	27	27	28	28															28	1.010	28	28
1985	30	30	30																30	1.014	30	30
1986	39	39																	39	1.018	40	40
1987	53																		53	1.025	54	54
1988																			28	1.031	29	29
1989																			19	1.039	20	20
1990																			44	1.047	46	46
1991																			33	1.057	35	35
1992																			38	1.077	41	41
1993																			20	1.105	22	22
1994																			24	1.127	27	27
1995																			10	1.140	11	11
1996																			6	1.154	7	7
1997																			7	1.195	8	8
1998																			9	1.218	11	11
1999																			9	1.241	11	11
2000																			6	1.270	8	8
2001																			38	1.289	49	49
2002																			24	1.333	32	32
2003																			5	1.398	7	7
2004																			3	1.481	4	4
2005																			5	1.607	8	8
2006																			2	1.736	3	25
2007																			6	1.888	11	25
2008																			2	2.020	4	25
2009																			5	2.220	11	25
2010																			3	2.521	8	25
2011																			1	3.063	3	25
																					TOTAL	1,181

(2) From SECTION 8A, EXHIBITS 2.3 AND 2.4
(3) = (1) * (2)
(4) SELECTED BY DELOITTE

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
SHEET 2.3

Ohio Department of Labor Living Miner Filings, Insured Only - Development Factors

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970				1.333	1.000	1.000	2.000	1.750	1.143	1.250	1.050	1.000	1.000	1.000	1.048	1.000	1.000	1.000	1.000	1.045	1.000	1.000	1.000	1.000
1971					1.000	1.000	4.500	1.444	1.385	1.000	1.000	1.000	1.000	1.000	1.000	1.056	1.000	1.000	1.000	1.000	1.000	1.000	1.053	1.000
1972		1.333	1.125	1.000	2.111	1.842	1.371	1.167	1.000	1.000	1.000	1.018	1.000	1.000	1.018	1.000	1.017	1.017	1.000	1.000	1.000	1.017	1.016	1.000
1973	1.125	1.111	1.150	1.174	1.407	1.158	1.068	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.021	1.000	1.000	1.021	1.000	1.041	1.000	1.000
1974	1.130	1.038	1.037	1.107	1.000	1.032	1.031	1.000	1.000	1.030	1.000	1.000	1.029	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1975	1.176	1.050	1.143	1.000	1.000	1.000	1.000	1.000	1.042	1.000	1.000	1.000	1.040	1.000	1.000	1.038	1.000	1.037	1.036	1.034	1.000	1.000	1.000	1.000
1976	1.118	1.053	1.025	1.024	1.000	1.024	1.000	1.000	1.000	1.047	1.000	1.000	1.044	1.000	1.021	1.000	1.000	1.021	1.000	1.000	1.020	1.000	1.000	1.000
1977	1.048	1.045	1.000	1.000	1.043	1.000	1.000	1.042	1.040	1.000	1.038	1.000	1.037	1.036	1.069	1.000	1.000	1.032	1.000	1.000	1.000	1.000	1.000	1.000
1978	1.087	1.080	1.000	1.000	1.000	1.000	1.074	1.034	1.000	1.000	1.000	1.067	1.031	1.000	1.091	1.028	1.027	1.026	1.000	1.000	1.000	1.000	1.026	1.000
1979	1.065	1.000	1.000	1.000	1.000	1.030	1.118	1.000	1.026	1.000	1.000	1.026	1.000	1.000	1.025	1.000	1.000	1.000	1.000	1.024	1.000	1.000	1.000	1.000
1980	1.000	1.080	1.037	1.036	1.103	1.063	1.000	1.059	1.056	1.000	1.000	1.000	1.000	1.000	1.053	1.000	1.000	1.000	1.000	1.075	1.023	1.000	1.023	1.022
1981	1.222	1.091	1.000	1.083	1.154	1.000	1.000	1.067	1.000	1.000	1.000	1.000	1.000	1.063	1.059	1.000	1.056	1.000	1.000	1.000	1.000	1.000	1.053	1.000
1982	1.143	1.000	1.000	1.000	1.000	1.000	1.125	1.111	1.200	1.000	1.000	1.083	1.077	1.071	1.067	1.063	1.000	1.176	1.000	1.050	1.000	1.000	1.000	1.048
1983	1.000	1.000	1.000	1.000	1.111	1.000	1.000	1.100	1.091	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.083	1.077	1.143	1.063	1.000	1.000	1.000	1.000
1984	1.000	1.111	1.300	1.077	1.000	1.071	1.000	1.067	1.000	1.000	1.125	1.056	1.000	1.000	1.105	1.048	1.000	1.045	1.087	1.040	1.000	1.000	1.000	1.038
1985	1.500	1.067	1.125	1.167	1.000	1.000	1.000	1.048	1.091	1.083	1.000	1.038	1.000	1.000	1.000	1.000	1.037	1.036	1.000	1.034	1.000	1.000	1.000	1.000
1986	1.150	1.130	1.038	1.000	1.000	1.111	1.033	1.000	1.065	1.000	1.030	1.059	1.000	1.000	1.000	1.000	1.028	1.000	1.027	1.000	1.000	1.000	1.000	1.026
1987	1.176	1.100	1.182	1.038	1.111	1.100	1.091	1.000	1.028	1.027	1.000	1.053	1.000	1.050	1.071	1.000	1.000	1.022	1.022	1.043	1.061	1.019	1.000	1.000
1988	1.750	1.214	1.059	1.000	1.000	1.167	1.095	1.000	1.043	1.042	1.040	1.000	1.000	1.000	1.038	1.037	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1989	1.400	1.286	1.111	1.000	1.100	1.000	1.091	1.083	1.000	1.000	1.000	1.077	1.000	1.143	1.063	1.000	1.000	1.000	1.000	1.000	1.059	1.056		
1990	1.125	1.222	1.000	1.364	1.200	1.000	1.056	1.053	1.050	1.143	1.000	1.042	1.040	1.077	1.107	1.032	1.031	1.030	1.235	1.024	1.023			
1991	1.714	1.250	1.067	1.063	1.059	1.000	1.000	1.000	1.111	1.200	1.000	1.042	1.080	1.074	1.034	1.000	1.033	1.000	1.065	1.000				
1992	1.333	1.625	1.231	1.125	1.167	1.048	1.136	1.000	1.080	1.037	1.036	1.034	1.033	1.065	1.030	1.029	1.000	1.029	1.056					
1993	1.250	1.400	1.143	1.125	1.000	1.000	1.333	1.083	1.077	1.143	1.000	1.000	1.063	1.059	1.000	1.056	1.000	1.053						
1994	1.250	1.100	1.182	1.154	1.067	1.125	1.056	1.000	1.053	1.000	1.100	1.000	1.045	1.000	1.043	1.000	1.000							
1995	1.000	1.000	4.000	1.250	1.400	1.143	1.000	1.000	1.000	1.000	1.000	1.125	1.000	1.000	1.111	1.000								
1996	1.000	3.000	1.000	1.000	1.333	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.200	1.000	1.000									
1997	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.333	1.000	1.500	1.167	1.000	1.000	1.000										
1998	1.000	1.500	1.333	1.250	1.000	1.000	1.000	1.400	1.000	1.000	1.143	1.125	1.000											
1999	1.000	2.500	1.400	1.143	1.125	1.000	1.000	1.000	1.000	1.000	1.000	1.000												
2000	1.000	1.000	4.000	1.000	1.000	1.250	1.000	1.200	1.000	1.000	1.000													
2001	2.200	1.727	1.105	1.000	1.095	1.130	1.115	1.069	1.161	1.056														
2002	2.250	1.444	1.154	1.133	1.000	1.059	1.000	1.222	1.091															
2003	1.000	1.000	1.000	1.000	1.000	1.500	1.333	1.250																
2004		1.000	1.000	3.000	1.000	1.000	1.000																	
2005	1.500	1.000	1.000	1.000	1.667	1.000																		
2006				2.000	1.000																			
2007	1.250	1.000	1.200	1.000																				
2008	2.000	1.000	1.000																					
2009	2.500	1.000																						
2010	1.000																							
All Yr Wtd Avg	1.215	1.135	1.099	1.069	1.088	1.081	1.085	1.060	1.048	1.034	1.015	1.023	1.019	1.019	1.036	1.012	1.012	1.020	1.025	1.019	1.010	1.007	1.008	1.006
10 yr Wgt Avg	1.783	1.308	1.216	1.109	1.074	1.093	1.047	1.105	1.073	1.051	1.039	1.033	1.043	1.048	1.052	1.015	1.014	1.020	1.061	1.024	1.017	1.007	1.006	1.012
5 yr Wgt Avg	1.500	1.000	1.182	1.231	1.074	1.100	1.073	1.123	1.093	1.065	1.061	1.054	1.038	1.016	1.034	1.017	1.014	1.022	1.082	1.018	1.029	1.012	1.000	1.012
Selected A-A	1.215	1.135	1.099	1.069	1.088	1.081	1.085	1.060	1.048	1.034	1.015	1.023	1.019	1.019	1.036	1.012	1.012	1.020	1.025	1.019	1.010	1.007	1.008	1.006
Cumulative	3.063	2.521	2.220	2.020	1.888	1.736	1.607	1.481	1.398	1.333	1.289	1.270	1.241	1.218	1.195	1.154	1.140	1.127	1.105	1.077	1.057	1.047	1.039	1.031

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Miner Filings, Insured Only - Development Factors

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1971	1.000	1.050	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1972	1.016	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1973	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1974	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1976	1.020	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1977	1.000	1.000	1.031	1.030	1.029	1.000	1.000	1.000	1.000	1.000								
1978	1.025	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
1979	1.000	1.000	1.024	1.000	1.000	1.023	1.000	1.000										
1980	1.000	1.000	1.000	1.022	1.000	1.000	1.000											
1981	1.000	1.000	1.000	1.050	1.000	1.000												
1982	1.045	1.000	1.000	1.000	1.000													
1983	1.000	1.000	1.000	1.000														
1984	1.000	1.037	1.000															
1985	1.000	1.000																
1986	1.000																	
1987																		
1988																		
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2004																		
2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	1.007	1.004	1.004	1.006	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
10 yr Wgt Avg	1.006	1.003	1.006	1.009	1.003	1.002	1.000	1.000										
5 yr Wgt Avg	1.007	1.009	1.000	1.013	1.000	1.005	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Selected A-A	1.007	1.004	1.004	1.006	1.002	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.025	1.018	1.014	1.010	1.004	1.002	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
SHEET 3.1

Ohio Department of Labor Living Miner Entitlements, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	10	15	15	16	16	17	18	18	18	18	18	18	19	19	19	19	19	19	19	19	19
1971	0	0	11	15	16	16	16	17	17	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1972	0	40	50	50	50	51	52	53	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54
1973	30	32	34	37	39	41	43	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	45	45
1974	21	25	26	27	28	28	28	28	29	29	29	29	29	30	30	30	30	30	30	30	30	30	30	30
1975	16	18	20	21	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24
1976	30	35	36	38	39	39	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
1977	17	18	20	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	22	22	23	23	23	23
1978	24	28	28	29	29	30	30	30	30	30	30	30	30	30	30	31	31	31	31	31	31	31	31	31
1979	25	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1980	22	22	22	22	22	23	23	23	23	23	23	23	23	23	23	23	23	24	24	24	24	24	24	24
1981	9	9	9	9	9	9	9	9	10	10	10	10	10	10	10	10	10	11	11	11	11	11	11	11
1982	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4
1983	5	5	5	6	6	6	6	6	6	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8
1984	2	2	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
1985	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3	4	4	4	4	4	4
1986	1	2	2	2	2	2	2	2	3	4	5	5	5	5	5	5	5	5	5	7	8	8	8	8
1987	1	1	1	1	1	1	1	1	1	1	1	1	1	3	4	5	5	6	6	7	7	7	8	8
1988	0	0	0	1	1	1	2	2	2	2	2	2	2	2	2	2	2	4	4	4	5	6	7	7
1989	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	
1990	2	3	3	3	3	3	3	4	4	4	5	5	5	5	5	5	6	6	7	7	7	7		
1991	0	1	1	1	1	1	1	1	1	2	2	2	2	3	4	5	5	5	5	5	5			
1992	0	0	0	0	0	0	0	0	1	2	3	3	3	3	3	3	3	3	3	3				
1993	1	1	1	1	1	1	1	2	2	3	4	4	4	4	4	4	4	4	4					
1994	2	2	2	2	3	3	5	6	6	6	6	6	6	6	6	6	6	6						
1995	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1									
1998	2	2	2	3	3	3	3	3	3	3	3	3	3	3										
1999	0	0	1	1	1	1	1	1	1	1	1	1	1											
2000	0	2	2	2	0	0	0	1	1	1	1	1												
2001	0	1	1	2	2	2	2	2	4	4	4													
2002	0	2	2	2	1	1	1	2	3	3														
2003	0	0	0	0	0	0	0	0	0															
2004	0	0	0	0	1	1	1	1																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	1	1	2	1																			
2008	0	0	0	0																				
2009	1	1	2																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 3.2

Ohio Department of Labor Living Miner Entitlements, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504
1970	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1971	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
1972	54	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
1973	45	45	45	45	45	45	46	46	46	46	46	46	46	46	46			
1974	30	30	30	30	30	30	30	30	30	30	30	30	30	30				
1975	24	24	24	24	24	24	24	24	24	24	24	24	24					
1976	40	40	40	40	40	40	40	40	40	40	40	40						
1977	23	23	23	23	23	23	23	23	23	23	23							
1978	31	31	31	31	31	31	31	31	31	31								
1979	28	28	28	28	28	28	28	28	28									
1980	24	24	24	24	24	24	24	24										
1981	11	11	11	11	11	11	11											
1982	5	5	5	5	5	5												
1983	8	8	8	8	8													
1984	3	3	3	3														
1985	4	4	4															
1986	10	10																
1987	8																	
1988																		
1989																		
1990																		
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2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
2011																		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 4.1

Cumulative Living Miner Entitlement Ratios (= EXHIBIT 3, SHEET 3 / EXHIBIT 3, SHEET 2 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0.0%	0.0%	0.0%	43.5%	65.2%	65.2%	69.6%	69.6%	73.9%	78.3%	78.3%	78.3%	78.3%	78.3%	78.3%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%
1971	0.0%	0.0%	52.4%	71.4%	76.2%	76.2%	76.2%	81.0%	81.0%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1972	0.0%	63.5%	79.4%	79.4%	79.4%	81.0%	82.5%	84.1%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1973	58.8%	62.7%	66.7%	72.5%	76.5%	80.4%	84.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	86.3%	88.2%	88.2%
1974	60.0%	71.4%	74.3%	77.1%	80.0%	80.0%	80.0%	80.0%	82.9%	82.9%	82.9%	82.9%	82.9%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%
1975	53.3%	60.0%	66.7%	70.0%	73.3%	73.3%	73.3%	73.3%	73.3%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	76.7%	80.0%	80.0%	80.0%	80.0%	80.0%
1976	58.8%	68.6%	70.6%	74.5%	76.5%	76.5%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%
1977	48.6%	51.4%	57.1%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	62.9%	62.9%	65.7%	65.7%	65.7%	65.7%
1978	58.5%	68.3%	68.3%	70.7%	70.7%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	73.2%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%
1979	56.8%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%
1980	46.8%	46.8%	46.8%	46.8%	46.8%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	48.9%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%
1981	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	42.9%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	47.6%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%
1982	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	13.0%	17.4%	17.4%	17.4%	17.4%	17.4%	17.4%
1983	29.3%	29.3%	29.3%	35.1%	35.1%	35.1%	35.1%	35.1%	35.1%	41.0%	41.0%	41.0%	41.0%	41.0%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%	46.9%
1984	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	7.1%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%	10.6%
1985	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	6.6%	9.9%	9.9%	13.1%	13.1%	13.1%	13.1%	13.1%	13.1%
1986	2.5%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	5.0%	7.6%	10.1%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	12.6%	17.6%	20.2%	20.2%	20.2%	20.2%
1987	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	1.8%	5.5%	7.4%	9.2%	9.2%	11.0%	11.0%	12.9%	12.9%	12.9%	14.7%	14.7%
1988	0.0%	0.0%	0.0%	3.5%	3.5%	3.5%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	6.9%	13.9%	13.9%	13.9%	17.3%	20.8%	24.2%	24.2%
1989	0.0%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	5.1%	10.1%	10.1%	10.1%	10.1%	10.1%	
1990	4.3%	6.5%	6.5%	6.5%	6.5%	6.5%	6.5%	8.7%	8.7%	8.7%	10.9%	10.9%	10.9%	10.9%	10.9%	10.9%	13.0%	13.0%	15.2%	15.2%	15.2%	15.2%		
1991	0.0%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	2.9%	5.7%	5.7%	5.7%	5.7%	8.6%	11.5%	14.3%	14.3%	14.3%	14.3%	14.3%	14.3%			
1992	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.4%	4.9%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%	7.3%				
1993	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	4.5%	9.1%	9.1%	13.6%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%	18.1%					
1994	7.4%	7.4%	7.4%	7.4%	11.1%	11.1%	18.5%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%	22.2%						
1995	0.0%	0.0%	0.0%	0.0%	0.0%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%	8.8%							
1996	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%								
1997	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	12.0%	12.0%	12.0%	12.0%	12.0%									
1998	18.2%	18.2%	18.2%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%	27.4%										
1999	0.0%	0.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%	9.0%											
2000	0.0%	26.2%	26.2%	26.2%	0.0%	0.0%	0.0%	13.1%	13.1%	13.1%	13.1%	13.1%												
2001	0.0%	2.0%	2.0%	4.1%	4.1%	4.1%	4.1%	4.1%	8.2%	8.2%	8.2%													
2002	0.0%	6.3%	6.3%	6.3%	3.1%	3.1%	3.1%	6.3%	9.4%	9.4%														
2003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
2004	0.0%	0.0%	0.0%	0.0%	22.5%	22.5%	22.5%	22.5%																
2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																	
2006	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																		
2007	0.0%	4.0%	4.0%	8.0%	4.0%																			
2008	0.0%	0.0%	0.0%	0.0%																				
2009	4.0%	4.0%	8.0%																					
2010	0.0%	0.0%																						
2011	0.0%																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
SHEET 4.2

Cumulative Living Miner Entitlement Ratios (= EXHIBIT 3, SHEET 3 / EXHIBIT 3, SHEET 2 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) Addl % Add	(3) Indicated Ultimate Entl Ratio	(4) Selected Ultimate Entl Ratio Low	(5) Selected Ultimate Entl Ratio High	(6) # Additional Claims Low	(7) # Additional Claims High
1970	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	82.6%	0.0%	82.6%	82.6%	82.6%	-	-
1971	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%		85.7%	0.0%	85.7%	85.7%	85.7%	-	-
1972	85.7%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%	87.3%			87.3%	0.0%	87.3%	87.3%	87.3%	-	-
1973	88.2%	88.2%	88.2%	88.2%	88.2%	88.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%	90.2%				90.2%	0.0%	90.2%	90.2%	90.2%	-	-
1974	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%	85.7%					85.7%	0.0%	85.7%	85.7%	85.7%	-	-
1975	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%						80.0%	0.0%	80.0%	80.0%	80.0%	-	-
1976	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%	78.4%							78.4%	0.0%	78.4%	78.4%	78.4%	-	-
1977	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%	65.7%								65.7%	0.0%	65.7%	65.7%	65.7%	-	-
1978	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%	75.6%									75.6%	0.0%	75.6%	75.6%	75.6%	-	-
1979	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%	63.6%										63.6%	0.0%	63.6%	63.6%	63.6%	-	-
1980	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%	51.1%											51.1%	0.0%	51.1%	51.1%	51.1%	-	-
1981	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%	52.4%												52.4%	0.0%	52.4%	52.4%	52.4%	-	-
1982	21.7%	21.7%	21.7%	21.7%	21.7%	21.7%													21.7%	0.2%	21.9%	21.9%	21.9%	0.0	0.0
1983	46.9%	46.9%	46.9%	46.9%	46.9%														46.9%	0.2%	47.0%	47.0%	47.0%	0.0	0.0
1984	10.6%	10.6%	10.6%	10.6%															10.6%	0.2%	10.8%	10.8%	10.8%	0.0	0.0
1985	13.1%	13.1%	13.1%																13.1%	0.2%	13.3%	13.3%	13.3%	0.0	0.0
1986	25.2%	25.2%																	25.2%	0.2%	25.4%	25.4%	25.4%	0.1	0.1
1987	14.7%																		14.7%	0.3%	15.0%	15.0%	15.0%	0.1	0.1
1988																			24.2%	0.8%	25.0%	25.0%	25.0%	0.2	0.2
1989																			10.1%	0.8%	10.9%	10.9%	10.9%	0.2	0.2
1990																			15.2%	1.1%	16.3%	16.3%	16.3%	0.5	0.5
1991																			14.3%	1.3%	15.6%	15.6%	15.6%	0.5	0.5
1992																			7.3%	1.7%	9.0%	9.0%	9.0%	0.7	0.7
1993																			18.1%	2.2%	20.3%	20.3%	20.3%	0.5	0.5
1994																			22.2%	2.9%	25.1%	25.1%	25.1%	0.8	0.8
1995																			8.8%	3.5%	12.3%	12.3%	12.3%	0.4	0.4
1996																			0.0%	3.7%	3.7%	3.7%	3.7%	0.3	0.3
1997																			12.0%	4.2%	16.1%	16.1%	16.1%	0.3	0.3
1998																			27.4%	4.5%	31.9%	31.9%	31.9%	0.5	0.5
1999																			9.0%	4.9%	13.8%	13.8%	13.8%	0.5	0.5
2000																			13.1%	4.9%	18.0%	18.0%	18.0%	0.4	0.4
2001																			8.2%	5.0%	13.1%	13.1%	13.1%	2.4	2.4
2002																			9.4%	5.7%	15.1%	15.1%	15.1%	1.8	1.8
2003																			0.0%	6.6%	6.6%	6.6%	6.6%	0.5	0.5
2004																			22.5%	7.4%	29.9%	29.9%	29.9%	0.3	0.3
2005																			0.0%	8.4%	8.4%	8.4%	8.4%	0.7	0.7
2006																			0.0%	9.0%	9.0%	10.0%	15.0%	0.3	3.8
2007																			4.0%	9.5%	13.5%	10.0%	15.0%	0.7	2.8
2008																			0.0%	10.4%	10.4%	10.0%	15.0%	0.4	3.8
2009																			8.0%	11.7%	19.7%	10.0%	15.0%	0.2	1.8
2010																			0.0%	13.0%	13.0%	10.0%	15.0%	0.8	3.8
2011																			0.0%	14.0%	14.0%	10.0%	15.0%	0.3	3.8
																							TOTAL	14.5	31.3

(2) From SECTION 8, EXHIBITS 4.3 AND 4.4
(3) = (1) + (2)
(4), (5) SELECTED BY DEL0ITTE
(6) = [(4) - (1)]* SECTION 8A, EXHIBIT 3, SHEET 2.2, COL (4)
(7) = [(5) - (1)]* SECTION 8A, EXHIBIT 3, SHEET 2.2, COL (4)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 4.3

Incremental Living Miner Entitlement Ratios

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970	-	-	0.435	0.217	-	0.043	-	0.043	0.043	-	-	-	-	-	0.043	-	-	-	-	-	-	-	-	-
1971	-	0.524	0.190	0.048	-	-	0.048	-	0.048	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1972	0.635	0.159	-	-	0.016	0.016	0.016	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	0.039	0.039	0.059	0.039	0.039	0.039	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-
1974	0.114	0.029	0.029	0.029	-	-	-	0.029	-	-	-	-	0.029	-	-	-	-	-	-	-	-	-	-	-
1975	0.067	0.067	0.033	0.033	-	-	-	-	0.033	-	-	-	-	-	-	-	-	-	0.033	-	-	-	-	-
1976	0.098	0.020	0.039	0.020	-	0.020	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	0.029	0.057	0.029	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.029	-	0.029	-	-	-	-
1978	0.098	-	0.024	-	0.024	-	-	-	-	-	-	-	-	-	0.024	-	-	-	-	-	-	-	-	-
1979	0.068	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	0.021	-	-	-	-	-	-	-	-	-	-	-	0.021	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	0.048	-	-	-	-	-	-	-	-	0.048	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.043	-	-	-	-	-	0.043
1983	-	-	0.059	-	-	-	-	-	0.059	-	-	-	-	0.059	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.033	-	0.033	-	-	-	-	-	-
1986	0.025	-	-	-	-	-	-	0.025	0.025	0.025	-	-	-	-	-	-	-	-	0.050	0.025	-	-	-	0.050
1987	-	-	-	-	-	-	-	-	-	-	-	-	0.037	0.018	0.018	-	0.018	-	0.018	-	-	0.018	-	-
1988	-	-	0.035	-	-	0.035	-	-	-	-	-	-	-	-	-	-	0.069	-	-	0.035	0.035	0.035	-	
1989	0.051	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.051	-	-	-	-		
1990	0.022	-	-	-	-	-	0.022	-	-	0.022	-	-	-	-	-	0.022	-	0.022	-	-	-			
1991	0.029	-	-	-	-	-	-	-	0.029	-	-	-	0.029	0.029	0.029	-	-	-	-	-				
1992	-	-	-	-	-	-	-	0.024	0.024	0.024	-	-	-	-	-	-	-	-	-					
1993	-	-	-	-	-	-	0.045	-	0.045	0.045	-	-	-	-	-	-	-	-						
1994	-	-	-	0.037	-	0.074	0.037	-	-	-	-	-	-	-	-	-	-							
1995	-	-	-	-	0.088	-	-	-	-	-	-	-	-	-	-	-								
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
1997	-	-	-	-	-	-	-	-	-	0.120	-	-	-	-										
1998	-	-	0.091	-	-	-	-	-	-	-	-	-	-											
1999	-	0.090	-	-	-	-	-	-	-	-	-	-												
2000	0.262	-	-	(0.262)	-	-	0.131	-	-	-	-													
2001	0.020	-	0.020	-	-	-	-	0.041	-	-														
2002	0.063	-	-	(0.031)	-	-	0.031	0.031	-															
2003	-	-	-	-	-	-	-	-																
2004	-	-	-	0.225	-	-	-																	
2005	-	-	-	-	-	-																		
2006	-	-	-	-	-																			
2007	0.040	-	0.040	(0.040)																				
2008	-	-	-																					
2009	-	0.040																						
2010	-																							
All Yr Wtd Avg	0.040	0.026	0.028	0.008	0.005	0.006	0.010	0.008	0.009	0.007	0.001	-	0.003	0.004	0.004	0.002	0.006	0.007	0.004	0.004	0.002	0.004	-	0.005
10 yr Wgt Avg	0.012	0.004	0.006	(0.011)	-	-	0.016	0.007	0.005	0.019	-	-	0.003	0.003	0.005	0.002	0.009	0.011	0.007	0.006	0.003	0.005	-	0.009
5 yr Wgt Avg	0.008	0.008	0.008	0.037	-	-	0.032	0.014	-	0.024	-	-	-	-	-	-	-	0.014	-	0.007	0.007	0.011	-	0.010
Selected A-A	0.010	0.013	0.013	0.008	0.005	0.006	0.010	0.008	0.009	0.007	0.001	-	0.003	0.004	0.004	0.002	0.006	0.007	0.004	0.004	0.002	0.004	-	0.005
Cumulative	0.140	0.130	0.117	0.104	0.095	0.090	0.084	0.074	0.066	0.057	0.050	0.049	0.049	0.045	0.042	0.037	0.035	0.029	0.022	0.017	0.013	0.011	0.008	0.008

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Incremental Living Miner Entitlement Ratios

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1972	0.016	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1973	-	-	-	-	-	0.020	-	-	-	-	-	-	-	-				
1974	-	-	-	-	-	-	-	-	-	-	-	-	-					
1975	-	-	-	-	-	-	-	-	-	-	-	-						
1976	-	-	-	-	-	-	-	-	-	-	-							
1977	-	-	-	-	-	-	-	-	-	-								
1978	-	-	-	-	-	-	-	-	-									
1979	-	-	-	-	-	-	-	-										
1980	-	-	-	-	-	-	-											
1981	-	-	-	-	-	-												
1982	-	-	-	-	-													
1983	-	-	-	-														
1984	-	-	-															
1985	-	-																
1986	-																	
1987																		
1988																		
1989																		
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2003																		
2004																		
2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	0.001	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
10 yr Wgt Avg	-	-	-	-	-	0.002	-	-										
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-					
Selected A-A	0.001	-	-	-	-	0.002	-	-	-	-	-	-	-	-	-	-	-	
Cumulative	0.003	0.002	0.002	0.002	0.002	0.002	-	-	-	-	-	-	-	-	-	-	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 5.1

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
1972	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1973	0	1	1	1	2	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1976	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2
1977	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
1978	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1979	1	1	1	1	1	1	1	1	1	2	3	3	3	4	4	4	4	4	4	4	4	4	4	4
1980	3	3	3	4	4	4	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
1983	0	0	1	1	1	2	2	3	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1984	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1985	1	1	2	2	2	2	2	2	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	5
1986	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1987	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	2	2	2	2	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1			
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
1994	0	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2						
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
1999	0	0	0	0	0	0	0	0	0	0	0	0	0											
2000	0	0	0	0	0	0	0	0	0	0	0	0												
2001	0	0	0	0	1	1	1	1	1	1	1													
2002	0	0	1	1	1	1	1	1	1	1														
2003	0	0	0	0	1	1	1	1	1															
2004	0	0	0	0	0	0	0	0																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	0	0	0	0																			
2008	0	0	1	1																				
2009	0	0	0																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) CDF	(3) Indicated Ultimate Filings	(4) Selected Ultimate Filings
1970	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1.000	1	1
1971	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		1	1.000	1	1
1972	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3			3	1.000	3	3
1973	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				5	1.000	5	5
1974	1	1	1	1	1	1	1	1	1	1	1	1	1	1					1	1.000	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1						1	1.000	1	1
1976	2	2	2	2	2	2	2	2	2	2	2	2							2	1.000	2	2
1977	5	5	5	5	5	5	5	5	5	5	5								5	1.000	5	5
1978	3	3	3	3	3	3	3	3	3	3									3	1.000	3	3
1979	4	4	4	4	4	4	4	4	4										4	1.000	4	4
1980	6	6	6	6	6	6	6	6											6	1.000	6	6
1981	1	1	1	1	1	1	1												1	1.000	1	1
1982	1	1	1	1	1	1													1	1.000	1	1
1983	5	5	5	5	5														5	1.000	5	5
1984	2	2	2	2															2	1.000	2	2
1985	5	5	5																5	1.000	5	5
1986	3	3																	3	1.000	3	3
1987	1																		1	1.000	1	1
1988																			0	1.020	-	-
1989																			2	1.042	2	2
1990																			0	1.063	-	-
1991																			1	1.085	1	1
1992																			0	1.085	-	-
1993																			0	1.131	-	-
1994																			2	1.131	2	2
1995																			0	1.155	-	-
1996																			0	1.232	-	-
1997																			0	1.232	-	-
1998																			0	1.232	-	-
1999																			0	1.320	-	-
2000																			0	1.386	-	-
2001																			1	1.386	1	1
2002																			1	1.495	1	1
2003																			1	1.576	2	2
2004																			0	1.711	-	-
2005																			0	1.761	-	-
2006																			0	1.871	-	2
2007																			0	2.218	-	2
2008																			1	2.604	3	2
2009																			0	2.841	-	2
2010																			0	3.676	-	2
2011																			0	4.464	-	2
																					TOTAL	72

(2) From SECTION 8A, EXHIBITS 5.3 AND 5.4
(3) = (1) * (2)
(4) SELECTED BY DEL0ITTE

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970													1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1971																						1.000	1.000	1.000
1972					3.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1973		1.000	1.000	2.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1974																				1.000	1.000	1.000	1.000	1.000
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1976	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000
1977	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1978	1.000	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.500	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1980	1.000	1.000	1.333	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1981																								
1982																	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1983			1.000	1.000	2.000	1.000	1.500	1.333	1.000	1.250	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1984	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1985	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.250	1.000
1986	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.500	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1987														1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
1988																								
1989													1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000	1.000		
1990																								
1991																	1.000	1.000	1.000	1.000				
1992																								
1993																								
1994		1.000	1.000	1.000	1.000	1.000	1.000	1.000	2.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1995																								
1996																								
1997																								
1998																								
1999																								
2000																								
2001					1.000	1.000	1.000	1.000	1.000	1.000														
2002			1.000	1.000	1.000	1.000	1.000	1.000	1.000															
2003					1.000	1.000	1.000	1.000																
2004																								
2005																								
2006																								
2007																								
2008			1.000																					
2009																								
2010																								
All Yr Wtd Avg	1.214	1.294	1.091	1.174	1.185	1.063	1.029	1.086	1.054	1.079	1.000	1.050	1.071	1.000	1.000	1.067	1.021	1.000	1.043	1.000	1.021	1.020	1.021	1.020
10 yr Wgt Avg			1.000	3.000	1.000	1.000	1.000	1.000	1.333	1.000	1.000	1.000	1.000	1.000	1.000	1.143	1.000	1.000	1.059	1.000	1.000	1.000	1.038	1.033
5 yr Wgt Avg			1.000		1.000	1.000	1.000	1.000	1.000	1.000			1.000	1.000	1.000	1.500	1.000	1.000	1.500	1.000	1.000	1.000	1.100	1.000
Selected A-A	1.214	1.294	1.091	1.174	1.185	1.063	1.029	1.086	1.054	1.079	1.000	1.050	1.071	1.000	1.000	1.067	1.021	1.000	1.043	1.000	1.021	1.020	1.021	1.020
Cumulative	4.464	3.676	2.841	2.604	2.218	1.871	1.761	1.711	1.576	1.495	1.386	1.386	1.320	1.232	1.232	1.232	1.155	1.131	1.131	1.085	1.085	1.063	1.042	1.020

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Widow Filings, Insured Only

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504	
1970	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
1971	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000		
1972	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000			
1973	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000				
1974	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
1975	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000						
1976	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000							
1977	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000								
1978	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000									
1979	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
1980	1.000	1.000	1.000	1.000	1.000	1.000	1.000											
1981	1.000	1.000	1.000	1.000	1.000	1.000												
1982	1.000	1.000	1.000	1.000	1.000													
1983	1.000	1.000	1.000	1.000														
1984	1.000	1.000	1.000															
1985	1.000	1.000																
1986	1.000																	
1987																		
1988																		
1989																		
1990																		
1991																		
1992																		
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2003																		
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2005																		
2006																		
2007																		
2008																		
2009																		
2010																		
All Yr Wtd Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
10 yr Wgt Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000										
5 yr Wgt Avg	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000					
Selected A-A	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	
Cumulative	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Ohio Department of Labor Living Widow Entitlements, Insured Only

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
1972	0	1	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1973	1	1	1	1	2	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4
1974	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
1975	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1976	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1977	3	4	4	4	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5
1978	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1979	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1980	3	3	3	3	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1981	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1982	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1983	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1984	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1985	0	0	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3	3
1986	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1988	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1989	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
1990	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
1991	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
1992	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
1993	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
1994	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
1995	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
1996	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
1997	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
1998	0	0	0	0	0	0	0	0	0	0	0	0	0	0										
1999	0	0	0	0	0	0	0	0	0	0	0	0	0											
2000	0	0	0	0	0	0	0	0	0	0	0	0												
2001	0	0	0	0	0	0	0	0	0	0	0													
2002	0	0	0	0	0	0	0	0	0	0														
2003	0	0	0	0	0	0	0	0	0															
2004	0	0	0	0	0	0	0	0																
2005	0	0	0	0	0	0	0																	
2006	0	0	0	0	0	0																		
2007	0	0	0	0	0																			
2008	0	0	0	0																				
2009	0	0	0																					
2010	0	0																						
2011	0																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 6.2

Ohio Department of Labor Living Widow Entitlements, Insured Only

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504
1970	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
1971	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1972	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
1973	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4			
1974	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
1975	1	1	1	1	1	1	1	1	1	1	1	1	1					
1976	1	1	1	1	1	1	1	1	1	1	1	1						
1977	5	5	5	5	5	5	5	5	5	5	5							
1978	3	3	3	3	3	3	3	3	3	3								
1979	0	0	0	0	0	0	0	0	0									
1980	5	5	5	5	5	5	5	5										
1981	0	0	0	0	0	0	0											
1982	0	0	0	0	0	0												
1983	0	0	0	0	0													
1984	1	1	1	1														
1985	3	3	3															
1986	0	0																
1987	0																	
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2011																		

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 7.1

Cumulative Living Widow Entitlement Ratios (= EXHIBIT 3, SHEET 6 / EXHIBIT 3, SHEET 5 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	12	24	36	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
1970	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1971	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%
1972	0.0%	33.3%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1973	20.0%	20.0%	20.0%	20.0%	40.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	60.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%
1974	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1975	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1976	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
1977	60.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1978	33.3%	33.3%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	66.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1980	50.0%	50.0%	50.0%	50.0%	50.0%	66.7%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1983	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1984	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
1985	0.0%	0.0%	20.0%	20.0%	20.0%	20.0%	20.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	40.0%	60.0%	60.0%
1986	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1987	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1988	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
1989	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	
1990	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%		
1991	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%			
1992	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%				
1993	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%					
1994	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%						
1995	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%							
1996	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%								
1997	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%									
1998	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										
1999	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%											
2000	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												
2001	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													
2002	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%														
2003	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%															
2004	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																
2005	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																	
2006	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%																		
2007	0.0%	0.0%	0.0%	0.0%	0.0%																			
2008	0.0%	0.0%	0.0%	0.0%																				
2009	0.0%	0.0%	0.0%																					
2010	0.0%	0.0%																						
2011	0.0%																							

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
SHEET 7.2

Cumulative Living Widow Entitlement Ratios (= EXHIBIT 3, SHEET 6 / EXHIBIT 3, SHEET 5 (SELECTED ULTIMATE FILINGS))

Date of Last Exposure	300	312	324	336	348	360	372	384	396	408	420	432	444	456	468	480	492	504	(1) As of 12/31/2011	(2) Addl % Add	(3) Indicated Ultimate Entl Ratio	(4) Selected Ultimate Entl Ratio Low	(5) Selected Ultimate Entl Ratio High	(6) # Additional Claims Low	(7) # Additional Claims High
1970	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1971	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1972	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%			100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1973	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%				80.0%	0.0%	80.0%	80.0%	80.0%	-	-
1974	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%					100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1975	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%						100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1976	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%							50.0%	0.0%	50.0%	50.0%	50.0%	-	-
1977	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%								100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1978	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%									100.0%	0.0%	100.0%	100.0%	100.0%	-	-
1979	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%										0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1980	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%	83.3%											83.3%	0.0%	83.3%	83.3%	83.3%	-	-
1981	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%												0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1982	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%													0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1983	0.0%	0.0%	0.0%	0.0%	0.0%														0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1984	50.0%	50.0%	50.0%	50.0%															50.0%	0.0%	50.0%	50.0%	50.0%	-	-
1985	60.0%	60.0%	60.0%																60.0%	0.0%	60.0%	60.0%	60.0%	-	-
1986	0.0%	0.0%																	0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1987	0.0%																		0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1988																			0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1989																			0.0%	0.0%	0.0%	0.0%	0.0%	-	-
1990																			0.0%	1.0%	1.0%	1.0%	1.0%	-	-
1991																			0.0%	5.8%	5.8%	5.8%	5.8%	0.1	0.1
1992																			0.0%	5.8%	5.8%	5.8%	5.8%	-	-
1993																			0.0%	10.1%	10.1%	10.1%	10.1%	-	-
1994																			0.0%	10.1%	10.1%	10.1%	10.1%	0.2	0.2
1995																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1996																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1997																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1998																			0.0%	10.9%	10.9%	10.9%	10.9%	-	-
1999																			0.0%	11.6%	11.6%	11.6%	11.6%	-	-
2000																			0.0%	11.6%	11.6%	11.6%	11.6%	-	-
2001																			0.0%	11.6%	11.6%	11.6%	11.6%	0.2	0.2
2002																			0.0%	12.6%	12.6%	12.6%	12.6%	0.2	0.2
2003																			0.0%	12.6%	12.6%	12.6%	12.6%	0.2	0.2
2004																			0.0%	12.6%	12.6%	12.6%	12.6%	-	-
2005																			0.0%	13.2%	13.2%	13.2%	13.2%	-	-
2006																			0.0%	13.7%	13.7%	10.0%	15.0%	-	0.3
2007																			0.0%	15.6%	15.6%	10.0%	15.0%	-	0.3
2008																			0.0%	16.1%	16.1%	10.0%	15.0%	0.3	0.3
2009																			0.0%	16.1%	16.1%	10.0%	15.0%	-	0.3
2010																			0.0%	18.3%	18.3%	10.0%	15.0%	-	0.3
2011																			0.0%	19.6%	19.6%	10.0%	15.0%	-	0.3
																						TOTAL		1.1	2.6

(2) From SECTION 8, EXHIBITS 7.3 AND 7.4
(3) = (1) + (2)
(4), (5) SELECTED BY DELOITTE
(6) = [(4) - (1)]* SECTION 8A, EXHIBIT 3, SHEET 5.2, COL (4)
(7) = [(5) - (1)]* SECTION 8A, EXHIBIT 3, SHEET 5.2, COL (4)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 3
Sheet 7.3

Incremental Living Widow Entitlement Ratios

Date of Last Exposure	12-24	24-36	36-48	48-60	60-72	72-84	84-96	96-108	108-120	120-132	132-144	144-156	156-168	168-180	180-192	192-204	204-216	216-228	228-240	240-252	252-264	264-276	276-288	288-300
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-
1972	0.333	0.333	-	-	0.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1973	-	-	-	0.200	0.200	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-
1974	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.000	-	-	-	-	-
1975	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1976	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1977	0.200	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-
1978	-	0.333	-	-	-	-	-	-	-	0.333	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1979	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1980	-	-	-	-	0.167	0.167	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1981	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1982	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1983	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1984	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1985	-	0.200	-	-	-	-	0.200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.200	-	-
1986	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1987	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1988	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1989	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1990	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1991	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1992	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
1993	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1994	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
1995	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1996	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
1997	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
1998	-	-	-	-	-	-	-	-	-	-	-	-	-											
1999	-	-	-	-	-	-	-	-	-	-	-	-												
2000	-	-	-	-	-	-	-	-	-	-	-													
2001	-	-	-	-	-	-	-	-	-	-														
2002	-	-	-	-	-	-	-	-	-															
2003	-	-	-	-	-	-	-	-																
2004	-	-	-	-	-	-	-																	
2005	-	-	-	-	-	-																		
2006	-	-	-	-	-																			
2007	-	-	-	-																				
2008	-	-	-																					
2009	-	-																						
2010	-																							
All Yr Wtd Avg	0.013	0.022	-	0.005	0.019	0.005	0.006	-	-	0.010	-	-	0.007	-	-	-	0.008	-	0.043	-	0.048	0.010	-	-
10 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.020	-	-
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.040	-	-
Selected A-A	0.013	0.022	-	0.005	0.019	0.005	0.006	-	-	0.010	-	-	0.007	-	-	-	0.008	-	0.043	-	0.048	0.010	-	-
Cumulative	0.196	0.183	0.161	0.161	0.156	0.137	0.132	0.126	0.126	0.126	0.116	0.116	0.116	0.109	0.109	0.109	0.109	0.101	0.101	0.058	0.058	0.010	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

Incremental Living Widow Entitlement Ratios

Date of Last Exposure	300-312	312-324	324-336	336-348	348-360	360-372	372-384	384-396	396-408	408-420	420-432	432-444	444-456	456-468	468-480	480-492	492-504
1970	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1971	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1972	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1973	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1974	-	-	-	-	-	-	-	-	-	-	-	-	-				
1975	-	-	-	-	-	-	-	-	-	-	-	-					
1976	-	-	-	-	-	-	-	-	-	-	-						
1977	-	-	-	-	-	-	-	-	-	-							
1978	-	-	-	-	-	-	-	-	-								
1979	-	-	-	-	-	-	-	-									
1980	-	-	-	-	-	-	-										
1981	-	-	-	-	-	-											
1982	-	-	-	-	-												
1983	-	-	-	-													
1984	-	-	-														
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2008																	
2009																	
2010																	
All Yr Wtd Avg	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10 yr Wgt Avg	-	-	-	-	-	-	-	-									
5 yr Wgt Avg	-	-	-	-	-	-	-	-	-	-	-	-	-				
Selected A-A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

UNPAID LOSSES FOR PENDING AND IBNR CLAIMS BASED ON OHIO EMPLOYEE SURVEY DATA, TERMINATED MINERS - LOW ESTIMATE

	LOW
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	10%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	18	0.1%	3	-	-	587,921	337,352	1,545,958	-	-	-	100%	-
20 - 24	24	5.8%	217	22	4	497,781	273,640	1,101,806	12,045,746	24,239,728	36,285,473	100%	36,285,473
25 - 29	28	8.9%	330	33	6	446,278	236,542	880,638	16,146,411	29,061,038	45,207,450	100%	45,207,450
30 - 34	33	12.1%	451	45	8	389,830	196,043	666,383	19,110,681	29,987,225	49,097,906	100%	49,097,906
35 - 39	38	11.1%	414	41	7	340,627	161,947	504,412	15,099,347	20,680,873	35,780,220	100%	35,780,220
40 - 44	43	10.4%	387	39	7	299,199	131,347	384,097	12,588,187	14,979,786	27,567,973	100%	27,567,973
45 - 49	48	9.1%	339	34	6	258,422	105,097	289,796	9,416,928	9,853,068	19,269,996	100%	19,269,996
50 - 54	53	8.8%	327	33	6	225,853	79,439	221,452	7,929,776	7,307,932	15,237,708	100%	15,237,708
55 - 59	58	10.0%	372	37	7	201,502	52,081	173,694	7,820,160	6,426,679	14,246,839	100%	14,246,839
60 - 64	63	9.6%	355	36	6	178,553	28,065	137,582	6,596,290	4,952,938	11,549,228	100%	11,549,228
65 - 69	68	6.2%	229	23	4	144,012	17,304	101,406	3,381,496	2,332,342	5,713,837	100%	5,713,837
70 - 74	73	3.9%	145	15	3	122,759	-	79,809	1,841,381	1,197,133	3,038,513	100%	3,038,513
75 - 79	78	2.2%	80	8	1	62,736	30,974	39,680	532,861	317,443	850,304	100%	850,304
80 - 84	83	1.4%	53	5	1	75,697	-	45,206	378,484	226,032	604,516	100%	604,516
85 - 89	89	0.3%	12	1	-	75,697	-	45,206	75,697	45,206	120,903	100%	120,903
TOTAL			**3,714**	**372**	**66**				**112,963,445**	**151,607,422**	**264,570,867**		**264,570,867**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
70,281	30,653	189,498	-	-	-	100%	-
75,293	31,372	170,888	1,781,936	3,759,541	5,541,477	100%	5,541,477
78,969	31,646	159,786	2,795,843	5,272,924	8,068,767	100%	8,068,767
83,925	31,790	147,106	4,030,944	6,619,777	10,650,721	100%	10,650,721
89,220	31,814	135,475	3,880,719	5,554,471	9,435,190	100%	9,435,190
95,204	31,197	125,385	3,931,326	4,890,011	8,821,337	100%	8,821,337
97,563	29,970	113,063	3,496,949	3,844,148	7,341,096	100%	7,341,096
101,305	27,055	103,211	3,505,406	3,405,963	6,911,369	100%	6,911,369
106,564	20,837	95,945	4,088,727	3,549,965	7,638,693	100%	7,638,693
107,941	13,036	87,516	3,964,094	3,150,570	7,114,664	100%	7,114,664
95,627	9,072	71,411	2,235,713	1,642,462	3,878,176	100%	3,878,176
89,124	-	61,718	1,336,863	925,777	2,262,640	100%	2,262,640
46,496	20,624	31,241	392,592	249,924	642,516	100%	642,516
60,680	-	38,495	303,398	192,477	495,875	100%	495,875
60,680	-	38,495	60,680	38,495	99,175	100%	99,175
	TOTAL		**35,805,190**	**43,096,507**	**78,901,696**		**78,901,696**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (26)
(7A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. (26)
(8) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (28)
(8A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. (28)
(9) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (27)
(9A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) TERMINATED MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8A, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

UNPAID LOSSES FOR PENDING AND IBNR CLAIMS BASED ON OHIO EMPLOYEE SURVEY DATA, TERMINATED MINERS - HIGH ESTIMATE

	HIGH
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	15%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	18	0.1%	3	-	-	587,921	337,352	1,545,958	-	-	-	100%	-
20 - 24	24	5.8%	217	33	6	497,781	273,640	1,101,806	18,068,618	36,359,592	54,428,210	100%	54,428,210
25 - 29	28	8.9%	330	50	9	446,278	236,542	880,638	24,442,756	44,031,876	68,474,632	100%	68,474,632
30 - 34	33	12.1%	451	68	12	389,830	196,043	666,383	28,860,937	45,314,028	74,174,965	100%	74,174,965
35 - 39	38	11.1%	414	62	11	340,627	161,947	504,412	22,900,308	31,273,516	54,173,823	100%	54,173,823
40 - 44	43	10.4%	387	58	10	299,199	131,347	384,097	18,667,008	22,277,630	40,944,638	100%	40,944,638
45 - 49	48	9.1%	339	51	9	258,422	105,097	289,796	14,125,392	14,779,602	28,904,994	100%	28,904,994
50 - 54	53	8.8%	327	49	9	225,853	79,439	221,452	11,781,738	10,851,171	22,632,909	100%	22,632,909
55 - 59	58	10.0%	372	56	10	201,502	52,081	173,694	11,804,951	9,726,865	21,531,816	100%	21,531,816
60 - 64	63	9.6%	355	53	10	178,553	28,065	137,582	9,743,947	7,291,826	17,035,773	100%	17,035,773
65 - 69	68	6.2%	229	34	6	144,012	17,304	101,406	5,000,238	3,447,809	8,448,047	100%	8,448,047
70 - 74	73	3.9%	145	22	4	122,759	-	79,809	2,700,692	1,755,795	4,456,486	100%	4,456,486
75 - 79	78	2.2%	80	12	2	62,736	30,974	39,680	814,778	476,165	1,290,943	100%	1,290,943
80 - 84	83	1.4%	53	8	1	75,697	-	45,206	605,574	361,651	967,226	100%	967,226
85 - 89	89	0.3%	12	2	-	75,697	-	45,206	151,394	90,413	241,806	100%	241,806
TOTAL			**3,714**	**558**	**99**				**169,668,330**	**228,037,939**	**397,706,269**		**397,706,269**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
70,281	30,653	189,498	-	-	-	100%	-
75,293	31,372	170,888	2,672,904	5,639,311	8,312,215	100%	8,312,215
78,969	31,646	159,786	4,233,249	7,989,279	12,222,528	100%	12,222,528
83,925	31,790	147,106	6,088,378	10,003,219	16,091,597	100%	16,091,597
89,220	31,814	135,475	5,881,596	8,399,443	14,281,040	100%	14,281,040
95,204	31,197	125,385	5,833,788	7,272,324	13,106,113	100%	13,106,113
97,563	29,970	113,063	5,245,423	5,766,221	11,011,645	100%	11,011,645
101,305	27,055	103,211	5,207,456	5,057,338	10,264,795	100%	10,264,795
106,564	20,837	95,945	6,175,954	5,372,921	11,548,875	100%	11,548,875
107,941	13,036	87,516	5,851,235	4,638,340	10,489,575	100%	10,489,575
95,627	9,072	71,411	3,305,757	2,427,988	5,733,744	100%	5,733,744
89,124	-	61,718	1,960,732	1,357,807	3,318,539	100%	3,318,539
46,496	20,624	31,241	599,200	374,886	974,086	100%	974,086
60,680	-	38,495	485,437	307,963	793,400	100%	793,400
60,680	-	38,495	121,359	76,991	198,350	100%	198,350
	TOTAL		**53,662,469**	**64,684,033**	**118,346,501**		**118,346,501**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (26)
(7A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. 26)
(8) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (28)
(8A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. (28)
(9) SECTION 8A, EXHIBIT 4, SHEET 4, COL. (27)
(9A) SECTION 8A, EXHIBIT 4, SHEET 4A, COL. 27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) TERMINATED MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8A, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 42

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	395,317	1,020,933	810,414	620,921
DISCOUNTED	196,703	390,292	288,373	264,271

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.033	4.049	0.390	24.0%	0.943	0.057	514,536	229,377	45,951	16,351	1,045,947	2,371,518	93,409	181,904	393,768	12,967
24	1.702	2.854	0.494	24.0%	0.954	0.046	520,186	231,895	37,557	13,364	885,582	1,690,183	63,939	194,878	355,097	11,231
28	1.513	2.261	0.577	24.0%	0.962	0.038	524,897	233,995	30,558	10,873	793,954	1,350,908	46,221	204,391	332,027	9,498
33	1.305	1.689	0.703	24.0%	0.974	0.026	531,533	236,954	20,699	7,365	693,530	1,022,239	27,007	217,219	305,679	6,752
38	1.126	1.262	0.855	24.0%	0.987	0.013	538,419	240,024	10,467	3,725	605,996	773,773	11,781	230,924	281,510	3,583
43	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
48	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
53	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
58	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
63	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
68	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
73	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
78	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
83	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
89	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3A, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3A, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3A, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3A, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 47

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	314,516	847,392	679,266	449,733
DISCOUNTED	171,696	354,715	265,329	216,413

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.357	5.418	0.321	24.0%	0.918	0.082	405,954	197,855	55,968	21,862	956,658	2,236,046	131,892	149,506	345,018	16,520
24	1.974	3.820	0.406	24.0%	0.928	0.072	410,412	200,027	49,124	19,188	809,983	1,593,632	96,951	160,169	311,135	15,365
28	1.754	3.026	0.475	24.0%	0.936	0.064	414,129	201,839	43,417	16,959	726,177	1,273,738	76,132	167,988	290,921	14,115
33	1.513	2.261	0.577	24.0%	0.948	0.052	419,364	204,390	35,379	13,819	634,326	963,844	53,514	178,531	267,835	12,071
38	1.305	1.689	0.703	24.0%	0.960	0.040	424,797	207,038	27,037	10,561	554,264	729,572	35,277	189,795	246,658	9,681
43	1.126	1.262	0.855	24.0%	0.977	0.023	432,197	210,645	15,676	6,123	486,441	554,675	17,643	202,659	228,157	5,891
48	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
53	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
58	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
63	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
68	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
73	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
78	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
83	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
89	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3B, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3B, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3B, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3B, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 52

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	246,008	687,941	555,769	322,245
DISCOUNTED	146,680	317,020	240,191	173,930

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	2.732	7.251	0.264	24.0%	0.882	0.118	310,475	165,401	65,664	28,379	848,187	2,060,537	179,388	119,089	293,113	20,433
24	2.288	5.112	0.333	24.0%	0.892	0.108	313,884	167,217	60,283	26,053	718,143	1,468,547	137,922	127,582	264,328	19,878
28	2.033	4.049	0.390	24.0%	0.900	0.100	316,726	168,732	55,795	24,113	643,840	1,173,761	113,420	133,810	247,154	19,123
33	1.754	3.026	0.475	24.0%	0.911	0.089	320,730	170,865	49,475	21,382	562,403	888,191	86,754	142,209	227,542	17,796
38	1.513	2.261	0.577	24.0%	0.923	0.077	324,886	173,078	42,915	18,547	491,419	672,307	64,913	151,181	209,551	16,200
43	1.305	1.689	0.703	24.0%	0.939	0.061	330,545	176,093	33,982	14,686	431,286	511,138	44,338	161,427	193,832	13,463
48	1.126	1.262	0.855	24.0%	0.968	0.032	340,708	181,507	17,939	7,753	383,470	393,695	20,191	174,626	181,642	7,459
53	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
58	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
63	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
68	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
73	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
78	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
83	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
89	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3C, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3C, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3C, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3C, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 57

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	189,529	550,072	447,542	229,036
DISCOUNTED	122,745	278,765	213,951	137,412

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	3.167	9.704	0.217	24.0%	0.827	0.173	228,167	132,399	77,643	37,118	722,610	1,836,880	245,898	90,831	238,727	25,464
24	2.652	6.841	0.274	24.0%	0.836	0.164	230,672	133,853	73,582	35,176	611,819	1,309,146	195,163	97,309	215,283	25,573
28	2.357	5.418	0.321	24.0%	0.843	0.157	232,761	135,065	70,195	33,557	548,516	1,046,358	165,419	102,060	201,296	25,357
33	2.033	4.049	0.390	24.0%	0.854	0.146	235,703	136,772	65,424	31,277	479,137	791,784	132,994	108,465	185,323	24,803
38	1.754	3.026	0.475	24.0%	0.865	0.135	238,757	138,544	60,474	28,910	418,662	599,333	106,041	115,309	170,670	24,061
43	1.513	2.261	0.577	24.0%	0.880	0.120	242,916	140,958	53,732	25,687	367,432	455,657	81,274	123,124	157,868	22,437
48	1.305	1.689	0.703	24.0%	0.907	0.093	250,385	145,292	41,623	19,898	326,695	350,962	54,309	133,191	147,939	18,241
53	1.126	1.262	0.855	24.0%	0.947	0.053	261,461	151,719	23,667	11,314	294,277	273,861	26,637	145,967	140,449	10,885
58	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
63	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
68	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
73	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
78	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
83	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
89	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3D, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3D, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3D, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3D, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 62

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	143,339	433,214	354,961	161,050
DISCOUNTED	100,187	240,563	187,095	106,334

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	3.671	12.985	0.178	24.0%	0.746	0.254	158,855	99,888	90,119	47,501	583,227	1,560,361	330,868	65,295	183,430	31,051
24	3.075	9.154	0.225	24.0%	0.754	0.246	160,599	100,984	87,211	45,968	493,807	1,112,071	268,156	69,952	165,416	31,842
28	2.732	7.251	0.264	24.0%	0.761	0.239	162,053	101,899	84,786	44,690	442,714	888,842	231,628	73,367	154,669	32,177
33	2.357	5.418	0.321	24.0%	0.771	0.229	164,102	103,187	81,371	42,889	386,717	672,591	191,756	77,972	142,395	32,409
38	2.033	4.049	0.390	24.0%	0.781	0.219	166,228	104,524	77,826	41,021	337,907	509,111	158,205	82,891	131,137	32,531
43	1.754	3.026	0.475	24.0%	0.794	0.206	169,124	106,345	72,999	38,477	296,559	387,064	128,004	88,509	121,300	32,024
48	1.513	2.261	0.577	24.0%	0.819	0.181	174,323	109,614	64,330	33,907	263,680	298,130	97,304	95,746	113,671	29,617
53	1.305	1.689	0.703	24.0%	0.855	0.145	182,035	114,463	51,473	27,131	237,514	232,635	67,161	104,930	107,916	24,871
58	1.126	1.262	0.855	24.0%	0.918	0.082	195,480	122,918	29,057	15,316	220,015	186,678	32,704	118,258	105,359	14,735
63	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
68	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
73	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
78	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
83	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
89	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3E, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3E, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3E, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3E, ROW 23
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 67

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	107,051	336,305	277,271	112,805
DISCOUNTED	80,125	203,727	160,450	81,050

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	4.256	17.378	0.146	24.0%	0.630	0.370	102,048	69,128	102,688	59,423	434,339	1,234,271	437,065	43,057	129,779	37,012
24	3.565	12.250	0.185	24.0%	0.637	0.363	103,168	69,887	100,772	58,314	367,746	879,666	359,202	46,128	117,034	38,489
28	3.167	9.704	0.217	24.0%	0.642	0.358	104,103	70,520	99,173	57,389	329,697	703,089	314,084	48,380	109,430	39,371
33	2.732	7.251	0.264	24.0%	0.650	0.350	105,419	71,412	96,922	56,086	287,994	532,031	264,780	51,417	100,747	40,382
38	2.357	5.418	0.321	24.0%	0.659	0.341	106,785	72,337	94,585	54,734	251,645	402,715	222,896	54,661	92,781	41,359
43	2.033	4.049	0.390	24.0%	0.670	0.330	108,645	73,597	91,403	52,893	220,852	306,174	185,803	58,365	85,822	41,946
48	1.754	3.026	0.475	24.0%	0.691	0.309	111,985	75,860	85,688	49,586	196,367	235,825	150,255	63,137	80,424	41,270
53	1.513	2.261	0.577	24.0%	0.722	0.278	116,939	79,216	77,213	44,681	176,881	184,018	116,792	69,194	76,352	39,028
58	1.305	1.689	0.703	24.0%	0.775	0.225	125,576	85,067	62,437	36,131	163,848	147,665	81,466	77,982	74,543	33,122
63	1.126	1.262	0.855	24.0%	0.867	0.133	140,520	95,190	36,871	21,337	158,156	123,475	41,499	91,581	75,836	20,528
68	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
73	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
78	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
83	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
89	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3F, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3F, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3F, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3F, ROW 23
(5) AVERAGE AGE OF THE GROUP
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(17) = (4) * (7) * (10) ON A NOMINAL BASIS
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(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 72

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	80,072	257,933	213,421	79,809
DISCOUNTED	63,682	169,690	134,942	61,718

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	4.934	23.255	0.120	24.0%	0.475	0.525	58,309	42,333	112,048	70,846	287,706	881,563	552,859	25,124	82,001	42,046
24	4.132	16.394	0.152	24.0%	0.480	0.520	58,950	42,798	110,935	70,142	243,594	628,291	458,411	26,916	73,948	44,113
28	3.671	12.985	0.178	24.0%	0.485	0.515	59,483	43,186	110,007	69,555	218,391	502,173	403,884	28,230	69,143	45,467
33	3.167	9.704	0.217	24.0%	0.491	0.509	60,235	43,732	108,699	68,729	190,767	379,997	344,254	30,002	63,657	47,151
38	2.732	7.251	0.264	24.0%	0.497	0.503	61,016	44,298	107,343	67,871	166,690	287,634	293,250	31,895	58,623	48,867
43	2.357	5.418	0.321	24.0%	0.506	0.494	62,079	45,070	105,495	66,702	146,292	218,681	248,605	34,056	54,226	50,403
48	2.033	4.049	0.390	24.0%	0.521	0.479	63,987	46,456	102,177	64,604	130,073	168,435	207,704	36,841	50,816	51,234
53	1.754	3.026	0.475	24.0%	0.544	0.456	66,818	48,511	97,255	61,493	117,166	131,433	170,538	40,375	48,243	51,180
58	1.513	2.261	0.577	24.0%	0.585	0.415	71,753	52,094	88,675	56,068	108,533	105,468	134,129	45,503	47,100	48,974
63	1.305	1.689	0.703	24.0%	0.654	0.346	80,292	58,293	73,831	46,682	104,763	88,191	96,332	53,438	47,917	42,794
68	1.126	1.262	0.855	24.0%	0.790	0.210	97,022	70,439	44,744	28,291	109,199	79,633	50,360	67,769	52,641	27,219
73	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
78	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
83	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
89	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3G, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3G, ROW 18
(3) SECTION 8A, EXHIBIT 4, SHEET 3G, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 4, SHEET 3G, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
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(16) = (6) * (12)
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 80

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	48,769	160,968	133,439	45,206
DISCOUNTED	42,100	119,514	96,102	38,495

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
18	6.250	37.065	0.088	24.0%	0.219	0.781	16,581	13,292	104,210	75,051	103,638	367,025	651,355	7,302	27,469	41,229
24	5.235	26.129	0.111	24.0%	0.221	0.779	16,763	13,437	103,889	74,820	87,748	261,579	543,819	7,822	24,771	43,555
28	4.651	20.697	0.130	24.0%	0.223	0.777	16,915	13,559	103,621	74,627	78,669	209,072	481,932	8,204	23,162	45,154
33	4.012	15.466	0.158	24.0%	0.226	0.774	17,129	13,731	103,245	74,356	68,718	158,206	414,206	8,719	21,324	47,217
38	3.461	11.557	0.193	24.0%	0.229	0.771	17,351	13,908	102,853	74,074	60,045	119,752	355,944	9,269	19,638	49,366
43	2.985	8.636	0.234	24.0%	0.233	0.767	17,653	14,151	102,321	73,691	52,698	91,044	305,450	9,897	18,165	51,541
48	2.575	6.453	0.285	24.0%	0.240	0.760	18,196	14,586	101,364	73,002	46,855	70,125	261,020	10,707	17,022	53,587
53	2.221	4.822	0.347	24.0%	0.251	0.749	19,000	15,231	99,945	71,980	42,206	54,720	222,006	11,734	16,160	55,452
58	1.916	3.604	0.422	24.0%	0.270	0.730	20,404	16,356	97,471	70,198	39,096	43,910	186,765	13,224	15,778	56,756
63	1.653	2.693	0.513	24.0%	0.302	0.698	22,832	18,302	93,191	67,115	37,738	36,717	154,030	15,530	16,051	56,949
68	1.426	2.012	0.625	24.0%	0.364	0.636	27,589	22,116	84,804	61,075	39,336	33,154	120,911	19,695	17,634	54,389
73	1.230	1.504	0.760	24.0%	0.495	0.505	37,482	30,046	67,366	48,516	46,098	33,658	82,851	28,081	21,780	45,344
78	1.061	1.124	0.925	24.0%	0.781	0.219	59,135	47,403	29,196	21,027	62,736	39,680	30,974	46,496	31,241	20,624
83	1.000	1.000	1.000	24.0%	1.000	-	75,697	60,680	-	-	75,697	45,206	-	60,680	38,495	-
89	1.000	1.000	1.000	24.0%	1.000	-	75,697	60,680	-	-	75,697	45,206	-	60,680	38,495	-

(1) SECTION 8A, EXHIBIT 4, SHEET 3H, ROW 17
(2) SECTION 8A, EXHIBIT 4, SHEET 3H, ROW 18
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(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 42

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	42.00	M		
	CLAIMANT 2 (y)	38.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			51.12	25.44
(12)	APV FOR CLAIMANT 2			104.81	37.29
(13)	APV FOR BOTH CLAIMANTS ALIVE			47.78	24.51
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			60.37	13.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			395,317	196,703
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			1,020,933	390,292
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			97.629	41.552
(23)	APV OF MEDICAL BENEFIT			620,921	264,271

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.004	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.005	0.001	0.996	0.999	0.995	0.005	0.962	1.030	1.060
2	0.006	0.001	0.991	0.999	0.990	0.010	0.925	1.061	1.124
3	0.006	0.001	0.985	0.998	0.984	0.016	0.889	1.093	1.191
4	0.007	0.001	0.979	0.997	0.977	0.023	0.855	1.126	1.262
5	0.007	0.001	0.973	0.996	0.969	0.031	0.822	1.159	1.338
6	0.007	0.001	0.966	0.996	0.962	0.038	0.790	1.194	1.419
7	0.008	0.001	0.959	0.995	0.954	0.046	0.760	1.230	1.504
8	0.008	0.001	0.952	0.994	0.946	0.054	0.731	1.267	1.594
9	0.009	0.001	0.944	0.993	0.937	0.063	0.703	1.305	1.689
10	0.010	0.001	0.935	0.992	0.927	0.072	0.676	1.344	1.791
11	0.012	0.001	0.925	0.990	0.916	0.083	0.650	1.384	1.898
12	0.013	0.001	0.914	0.989	0.904	0.095	0.625	1.426	2.012
13	0.014	0.002	0.903	0.988	0.891	0.107	0.601	1.469	2.133
14	0.015	0.002	0.890	0.986	0.878	0.121	0.577	1.513	2.261
15	0.017	0.002	0.876	0.984	0.863	0.136	0.555	1.558	2.397
16	0.018	0.002	0.861	0.983	0.846	0.151	0.534	1.605	2.540
17	0.020	0.002	0.846	0.980	0.829	0.168	0.513	1.653	2.693
18	0.022	0.003	0.829	0.978	0.811	0.186	0.494	1.702	2.854
19	0.024	0.003	0.811	0.976	0.791	0.205	0.475	1.754	3.026
20	0.027	0.003	0.791	0.973	0.770	0.225	0.456	1.806	3.207
21	0.030	0.004	0.770	0.970	0.746	0.247	0.439	1.860	3.400
22	0.033	0.004	0.747	0.966	0.722	0.270	0.422	1.916	3.604
23	0.037	0.005	0.723	0.962	0.695	0.295	0.406	1.974	3.820
24	0.041	0.006	0.696	0.957	0.666	0.321	0.390	2.033	4.049
25	0.046	0.007	0.667	0.951	0.635	0.349	0.375	2.094	4.292
26	0.050	0.008	0.637	0.945	0.602	0.378	0.361	2.157	4.549
27	0.055	0.009	0.605	0.938	0.567	0.408	0.347	2.221	4.822
28	0.059	0.010	0.572	0.929	0.532	0.438	0.333	2.288	5.112
29	0.064	0.011	0.538	0.920	0.495	0.468	0.321	2.357	5.418
30	0.069	0.012	0.504	0.911	0.458	0.497	0.308	2.427	5.743
31	0.074	0.013	0.469	0.900	0.422	0.525	0.296	2.500	6.088
32	0.080	0.014	0.434	0.888	0.386	0.551	0.285	2.575	6.453
33	0.086	0.015	0.400	0.876	0.350	0.575	0.274	2.652	6.841
34	0.094	0.017	0.365	0.863	0.315	0.598	0.264	2.732	7.251
35	0.102	0.018	0.331	0.849	0.281	0.618	0.253	2.814	7.686
36	0.111	0.020	0.297	0.833	0.248	0.635	0.244	2.898	8.147
37	0.121	0.023	0.264	0.816	0.216	0.649	0.234	2.985	8.636
38	0.131	0.025	0.232	0.798	0.185	0.659	0.225	3.075	9.154
39	0.141	0.028	0.202	0.778	0.157	0.666	0.217	3.167	9.704
40	0.151	0.032	0.173	0.756	0.131	0.667	0.208	3.262	10.286
41	0.162	0.035	0.147	0.732	0.108	0.663	0.200	3.360	10.903
42	0.173	0.039	0.123	0.706	0.087	0.655	0.193	3.461	11.557
43	0.186	0.044	0.102	0.678	0.069	0.642	0.185	3.565	12.250
44	0.201	0.049	0.083	0.648	0.054	0.624	0.178	3.671	12.985
45	0.218	0.055	0.066	0.616	0.041	0.601	0.171	3.782	13.765
46	0.237	0.061	0.052	0.582	0.030	0.574	0.165	3.895	14.590
47	0.258	0.068	0.040	0.547	0.022	0.543	0.158	4.012	15.466
48	0.282	0.075	0.029	0.510	0.015	0.509	0.152	4.132	16.394
49	0.309	0.084	0.021	0.471	0.010	0.473	0.146	4.256	17.378
50	0.339	0.094	0.015	0.432	0.006	0.434	0.141	4.384	18.420
51	0.371	0.105	0.010	0.391	0.004	0.393	0.135	4.515	19.525
52	0.406	0.116	0.006	0.350	0.002	0.352	0.130	4.651	20.697
53	0.444	0.129	0.004	0.310	0.001	0.311	0.125	4.790	21.939
54	0.475	0.142	0.002	0.270	0.001	0.271	0.120	4.934	23.255
55	0.506	0.156	0.001	0.231	0.000	0.232	0.116	5.082	24.650
56	0.539	0.171	0.001	0.195	0.000	0.196	0.111	5.235	26.129
57	0.575	0.186	0.000	0.162	0.000	0.162	0.107	5.392	27.697
58	0.616	0.203	0.000	0.132	0.000	0.132	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 47

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	47.00	M		
	CLAIMANT 2 (y)	43.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			40.68	22.20
(12)	APV FOR CLAIMANT 2			87.85	34.31
(13)	APV FOR BOTH CLAIMANTS ALIVE			37.85	21.28
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			52.82	13.95
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			314,516	171,696
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			847,392	354,715
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			70.713	34.027
(23)	APV OF MEDICAL BENEFIT			449,733	216,413

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.007	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.007	0.001	0.993	0.999	0.992	0.008	0.962	1.030	1.060
2	0.008	0.001	0.986	0.998	0.984	0.016	0.925	1.061	1.124
3	0.008	0.001	0.978	0.997	0.976	0.024	0.889	1.093	1.191
4	0.009	0.001	0.970	0.996	0.966	0.033	0.855	1.126	1.262
5	0.010	0.001	0.961	0.995	0.956	0.043	0.822	1.159	1.338
6	0.012	0.001	0.951	0.994	0.945	0.054	0.790	1.194	1.419
7	0.013	0.001	0.940	0.993	0.933	0.067	0.760	1.230	1.504
8	0.014	0.002	0.928	0.991	0.920	0.080	0.731	1.267	1.594
9	0.015	0.002	0.915	0.990	0.905	0.094	0.703	1.305	1.689
10	0.017	0.002	0.901	0.988	0.890	0.109	0.676	1.344	1.791
11	0.018	0.002	0.886	0.986	0.873	0.125	0.650	1.384	1.898
12	0.020	0.002	0.869	0.984	0.855	0.142	0.625	1.426	2.012
13	0.022	0.003	0.852	0.982	0.836	0.161	0.601	1.469	2.133
14	0.024	0.003	0.833	0.979	0.816	0.181	0.577	1.513	2.261
15	0.027	0.003	0.813	0.976	0.794	0.202	0.555	1.558	2.397
16	0.030	0.004	0.791	0.973	0.770	0.224	0.534	1.605	2.540
17	0.033	0.004	0.768	0.969	0.744	0.248	0.513	1.653	2.693
18	0.037	0.005	0.743	0.965	0.717	0.274	0.494	1.702	2.854
19	0.041	0.006	0.715	0.960	0.687	0.302	0.475	1.754	3.026
20	0.046	0.007	0.686	0.954	0.655	0.331	0.456	1.806	3.207
21	0.050	0.008	0.655	0.948	0.621	0.361	0.439	1.860	3.400
22	0.055	0.009	0.622	0.941	0.585	0.392	0.422	1.916	3.604
23	0.059	0.010	0.588	0.933	0.548	0.424	0.406	1.974	3.820
24	0.064	0.011	0.553	0.924	0.511	0.455	0.390	2.033	4.049
25	0.069	0.012	0.518	0.914	0.473	0.485	0.375	2.094	4.292
26	0.074	0.013	0.482	0.903	0.435	0.514	0.361	2.157	4.549
27	0.080	0.014	0.447	0.892	0.398	0.542	0.347	2.221	4.822
28	0.086	0.015	0.411	0.879	0.361	0.568	0.333	2.288	5.112
29	0.094	0.017	0.376	0.866	0.325	0.591	0.321	2.357	5.418
30	0.102	0.018	0.340	0.852	0.290	0.612	0.308	2.427	5.743
31	0.111	0.020	0.306	0.836	0.256	0.631	0.296	2.500	6.088
32	0.121	0.023	0.272	0.819	0.222	0.646	0.285	2.575	6.453
33	0.131	0.025	0.239	0.801	0.191	0.657	0.274	2.652	6.841
34	0.141	0.028	0.207	0.780	0.162	0.664	0.264	2.732	7.251
35	0.151	0.032	0.178	0.758	0.135	0.666	0.253	2.814	7.686
36	0.162	0.035	0.151	0.734	0.111	0.663	0.244	2.898	8.147
37	0.173	0.039	0.127	0.708	0.090	0.655	0.234	2.985	8.636
38	0.186	0.044	0.105	0.680	0.071	0.642	0.225	3.075	9.154
39	0.201	0.049	0.085	0.650	0.055	0.625	0.217	3.167	9.704
40	0.218	0.055	0.068	0.618	0.042	0.602	0.208	3.262	10.286
41	0.237	0.061	0.053	0.584	0.031	0.575	0.200	3.360	10.903
42	0.258	0.068	0.041	0.549	0.022	0.545	0.193	3.461	11.557
43	0.282	0.075	0.030	0.512	0.015	0.511	0.185	3.565	12.250
44	0.309	0.084	0.022	0.473	0.010	0.474	0.178	3.671	12.985
45	0.339	0.094	0.015	0.433	0.006	0.435	0.171	3.782	13.765
46	0.371	0.105	0.010	0.393	0.004	0.395	0.165	3.895	14.590
47	0.406	0.116	0.006	0.352	0.002	0.353	0.158	4.012	15.466
48	0.444	0.129	0.004	0.311	0.001	0.312	0.152	4.132	16.394
49	0.475	0.142	0.002	0.271	0.001	0.272	0.146	4.256	17.378
50	0.506	0.156	0.001	0.232	0.000	0.233	0.141	4.384	18.420
51	0.539	0.171	0.001	0.196	0.000	0.196	0.135	4.515	19.525
52	0.575	0.186	0.000	0.163	0.000	0.163	0.130	4.651	20.697
53	0.616	0.203	0.000	0.132	0.000	0.132	0.125	4.790	21.939
54	0.661	0.220	0.000	0.106	0.000	0.106	0.120	4.934	23.255
55	0.713	0.238	0.000	0.082	0.000	0.082	0.116	5.082	24.650
56	0.773	0.257	0.000	0.063	0.000	0.063	0.111	5.235	26.129
57	0.841	0.276	0.000	0.047	0.000	0.047	0.107	5.392	27.697
58	0.918	0.297	0.000	0.034	0.000	0.034	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 52

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	52.00	M		
	CLAIMANT 2 (y)	48.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			31.82	18.97
(12)	APV FOR CLAIMANT 2			71.88	31.06
(13)	APV FOR BOTH CLAIMANTS ALIVE			29.43	18.06
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			44.82	13.91
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			246,008	146,680
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			687,941	317,020
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			50.667	27.347
(23)	APV OF MEDICAL BENEFIT			322,245	173,930

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.010	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.012	0.001	0.990	0.999	0.988	0.012	0.962	1.030	1.060
2	0.013	0.001	0.978	0.997	0.976	0.024	0.925	1.061	1.124
3	0.014	0.002	0.966	0.996	0.962	0.038	0.889	1.093	1.191
4	0.015	0.002	0.952	0.994	0.947	0.053	0.855	1.126	1.262
5	0.017	0.002	0.937	0.993	0.930	0.069	0.822	1.159	1.338
6	0.018	0.002	0.922	0.991	0.913	0.086	0.790	1.194	1.419
7	0.020	0.002	0.905	0.989	0.895	0.104	0.760	1.230	1.504
8	0.022	0.003	0.887	0.987	0.875	0.124	0.731	1.267	1.594
9	0.024	0.003	0.867	0.984	0.853	0.145	0.703	1.305	1.689
10	0.027	0.003	0.846	0.981	0.830	0.167	0.676	1.344	1.791
11	0.030	0.004	0.824	0.978	0.805	0.191	0.650	1.384	1.898
12	0.033	0.004	0.799	0.974	0.778	0.216	0.625	1.426	2.012
13	0.037	0.005	0.773	0.970	0.750	0.244	0.601	1.469	2.133
14	0.041	0.006	0.745	0.965	0.718	0.273	0.577	1.513	2.261
15	0.046	0.007	0.714	0.959	0.685	0.303	0.555	1.558	2.397
16	0.050	0.008	0.682	0.953	0.649	0.336	0.534	1.605	2.540
17	0.055	0.009	0.647	0.946	0.612	0.369	0.513	1.653	2.693
18	0.059	0.010	0.612	0.937	0.573	0.402	0.494	1.702	2.854
19	0.064	0.011	0.575	0.928	0.534	0.435	0.475	1.754	3.026
20	0.069	0.012	0.539	0.918	0.495	0.468	0.456	1.806	3.207
21	0.074	0.013	0.502	0.907	0.455	0.499	0.439	1.860	3.400
22	0.080	0.014	0.465	0.896	0.416	0.528	0.422	1.916	3.604
23	0.086	0.015	0.428	0.884	0.378	0.555	0.406	1.974	3.820
24	0.094	0.017	0.391	0.870	0.340	0.581	0.390	2.033	4.049
25	0.102	0.018	0.354	0.856	0.303	0.604	0.375	2.094	4.292
26	0.111	0.020	0.318	0.840	0.267	0.624	0.361	2.157	4.549
27	0.121	0.023	0.283	0.823	0.233	0.641	0.347	2.221	4.822
28	0.131	0.025	0.248	0.805	0.200	0.653	0.333	2.288	5.112
29	0.141	0.028	0.216	0.784	0.169	0.661	0.321	2.357	5.418
30	0.151	0.032	0.185	0.762	0.141	0.665	0.308	2.427	5.743
31	0.162	0.035	0.157	0.738	0.116	0.663	0.296	2.500	6.088
32	0.173	0.039	0.132	0.712	0.094	0.656	0.285	2.575	6.453
33	0.186	0.044	0.109	0.684	0.075	0.644	0.274	2.652	6.841
34	0.201	0.049	0.089	0.654	0.058	0.626	0.264	2.732	7.251
35	0.218	0.055	0.071	0.621	0.044	0.604	0.253	2.814	7.686
36	0.237	0.061	0.055	0.587	0.033	0.578	0.244	2.898	8.147
37	0.258	0.068	0.042	0.552	0.023	0.547	0.234	2.985	8.636
38	0.282	0.075	0.031	0.514	0.016	0.513	0.225	3.075	9.154
39	0.309	0.084	0.023	0.475	0.011	0.477	0.217	3.167	9.704
40	0.339	0.094	0.016	0.435	0.007	0.438	0.208	3.262	10.286
41	0.371	0.105	0.010	0.395	0.004	0.397	0.200	3.360	10.903
42	0.406	0.116	0.006	0.353	0.002	0.355	0.193	3.461	11.557
43	0.444	0.129	0.004	0.312	0.001	0.314	0.185	3.565	12.250
44	0.475	0.142	0.002	0.272	0.001	0.273	0.178	3.671	12.985
45	0.506	0.156	0.001	0.233	0.000	0.234	0.171	3.782	13.765
46	0.539	0.171	0.001	0.197	0.000	0.197	0.165	3.895	14.590
47	0.575	0.186	0.000	0.163	0.000	0.164	0.158	4.012	15.466
48	0.616	0.203	0.000	0.133	0.000	0.133	0.152	4.132	16.394
49	0.661	0.220	0.000	0.106	0.000	0.106	0.146	4.256	17.378
50	0.713	0.238	0.000	0.083	0.000	0.083	0.141	4.384	18.420
51	0.773	0.257	0.000	0.063	0.000	0.063	0.135	4.515	19.525
52	0.841	0.276	0.000	0.047	0.000	0.047	0.130	4.651	20.697
53	0.918	0.297	0.000	0.034	0.000	0.034	0.125	4.790	21.939
54	1.000	0.317	0.000	0.024	0.000	0.024	0.120	4.934	23.255
55	-	0.339	-	0.016	-	0.016	0.116	5.082	24.650
56	-	0.361	-	0.011	-	0.011	0.111	5.235	26.129
57	-	0.384	-	0.007	-	0.007	0.107	5.392	27.697
58	-	0.405	-	0.004	-	0.004	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 57

		Age	Sex
	CLAIMANT 1 (x)	57.00	M
	CLAIMANT 2 (y)	53.00	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(11)	APV FOR CLAIMANT 1	24.51	15.87
(12)	APV FOR CLAIMANT 2	57.88	27.67
(13)	APV FOR BOTH CLAIMANTS ALIVE	22.50	14.98
(14)	APV FOR ONLY 1 CLAIMANT ALIVE	37.40	13.59
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY	189,529	122,745
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.	550,072	278,765
	MEDICAL PAYMENTS		
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT	36.012	21.606
(23)	APV OF MEDICAL BENEFIT	229,036	137,412

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	0.002	0.983	0.998	0.981	0.019	0.962	1.030	1.060
2	0.020	0.002	0.965	0.996	0.961	0.039	0.925	1.061	1.124
3	0.022	0.003	0.946	0.994	0.940	0.060	0.889	1.093	1.191
4	0.024	0.003	0.925	0.991	0.917	0.082	0.855	1.126	1.262
5	0.027	0.003	0.903	0.988	0.892	0.107	0.822	1.159	1.338
6	0.030	0.004	0.879	0.985	0.865	0.133	0.790	1.194	1.419
7	0.033	0.004	0.853	0.981	0.837	0.161	0.760	1.230	1.504
8	0.037	0.005	0.825	0.977	0.806	0.190	0.731	1.267	1.594
9	0.041	0.006	0.794	0.972	0.772	0.222	0.703	1.305	1.689
10	0.046	0.007	0.762	0.966	0.736	0.256	0.676	1.344	1.791
11	0.050	0.008	0.727	0.960	0.698	0.291	0.650	1.384	1.898
12	0.055	0.009	0.691	0.952	0.658	0.327	0.625	1.426	2.012
13	0.059	0.010	0.653	0.944	0.616	0.364	0.601	1.469	2.133
14	0.064	0.011	0.614	0.935	0.574	0.401	0.577	1.513	2.261
15	0.069	0.012	0.575	0.925	0.532	0.437	0.555	1.558	2.397
16	0.074	0.013	0.535	0.914	0.489	0.471	0.534	1.605	2.540
17	0.080	0.014	0.496	0.902	0.447	0.503	0.513	1.653	2.693
18	0.086	0.015	0.456	0.890	0.406	0.534	0.494	1.702	2.854
19	0.094	0.017	0.417	0.877	0.366	0.563	0.475	1.754	3.026
20	0.102	0.018	0.378	0.862	0.326	0.588	0.456	1.806	3.207
21	0.111	0.020	0.339	0.846	0.287	0.611	0.439	1.860	3.400
22	0.121	0.023	0.301	0.829	0.250	0.631	0.422	1.916	3.604
23	0.131	0.025	0.265	0.810	0.215	0.646	0.406	1.974	3.820
24	0.141	0.028	0.230	0.790	0.182	0.656	0.390	2.033	4.049
25	0.151	0.032	0.198	0.767	0.152	0.662	0.375	2.094	4.292
26	0.162	0.035	0.168	0.743	0.125	0.661	0.361	2.157	4.549
27	0.173	0.039	0.141	0.717	0.101	0.656	0.347	2.221	4.822
28	0.186	0.044	0.116	0.689	0.080	0.645	0.333	2.288	5.112
29	0.201	0.049	0.095	0.658	0.062	0.628	0.321	2.357	5.418
30	0.218	0.055	0.076	0.626	0.047	0.607	0.308	2.427	5.743
31	0.237	0.061	0.059	0.592	0.035	0.581	0.296	2.500	6.088
32	0.258	0.068	0.045	0.556	0.025	0.551	0.285	2.575	6.453
33	0.282	0.075	0.033	0.518	0.017	0.517	0.274	2.652	6.841
34	0.309	0.084	0.024	0.479	0.012	0.480	0.264	2.732	7.251
35	0.339	0.094	0.017	0.439	0.007	0.441	0.253	2.814	7.686
36	0.371	0.105	0.011	0.398	0.004	0.400	0.244	2.898	8.147
37	0.406	0.116	0.007	0.356	0.002	0.358	0.234	2.985	8.636
38	0.444	0.129	0.004	0.315	0.001	0.316	0.225	3.075	9.154
39	0.475	0.142	0.002	0.274	0.001	0.275	0.217	3.167	9.704
40	0.506	0.156	0.001	0.235	0.000	0.236	0.208	3.262	10.286
41	0.539	0.171	0.001	0.198	0.000	0.199	0.200	3.360	10.903
42	0.575	0.186	0.000	0.165	0.000	0.165	0.193	3.461	11.557
43	0.616	0.203	0.000	0.134	0.000	0.134	0.185	3.565	12.250
44	0.661	0.220	0.000	0.107	0.000	0.107	0.178	3.671	12.985
45	0.713	0.238	0.000	0.083	0.000	0.083	0.171	3.782	13.765
46	0.773	0.257	0.000	0.064	0.000	0.064	0.165	3.895	14.590
47	0.841	0.276	0.000	0.047	0.000	0.047	0.158	4.012	15.466
48	0.918	0.297	0.000	0.034	0.000	0.034	0.152	4.132	16.394
49	1.000	0.317	0.000	0.024	0.000	0.024	0.146	4.256	17.378
50	-	0.339	-	0.016	-	0.016	0.141	4.384	18.420
51	-	0.361	-	0.011	-	0.011	0.135	4.515	19.525
52	-	0.384	-	0.007	-	0.007	0.130	4.651	20.697
53	-	0.405	-	0.004	-	0.004	0.125	4.790	21.939
54	-	0.425	-	0.003	-	0.003	0.120	4.934	23.255
55	-	0.444	-	0.001	-	0.001	0.116	5.082	24.650
56	-	0.464	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.482	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.495	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 62

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	62.00	M		
	CLAIMANT 2 (y)	58.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			18.54	12.96
(12)	APV FOR CLAIMANT 2			45.91	24.20
(13)	APV FOR BOTH CLAIMANTS ALIVE			16.83	12.08
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			30.78	12.99
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			143,339	100,187
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			433,214	240,563
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			25.322	16.719
(23)	APV OF MEDICAL BENEFIT			161,050	106,334

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.027	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.030	0.004	0.973	0.997	0.970	0.030	0.962	1.030	1.060
2	0.033	0.004	0.945	0.993	0.938	0.062	0.925	1.061	1.124
3	0.037	0.005	0.913	0.988	0.903	0.096	0.889	1.093	1.191
4	0.041	0.006	0.880	0.983	0.865	0.133	0.855	1.126	1.262
5	0.046	0.007	0.844	0.978	0.825	0.171	0.822	1.159	1.338
6	0.050	0.008	0.805	0.971	0.782	0.212	0.790	1.194	1.419
7	0.055	0.009	0.765	0.964	0.737	0.254	0.760	1.230	1.504
8	0.059	0.010	0.723	0.955	0.691	0.297	0.731	1.267	1.594
9	0.064	0.011	0.680	0.946	0.643	0.339	0.703	1.305	1.689
10	0.069	0.012	0.637	0.936	0.596	0.381	0.676	1.344	1.791
11	0.074	0.013	0.593	0.925	0.548	0.421	0.650	1.384	1.898
12	0.080	0.014	0.549	0.913	0.501	0.459	0.625	1.426	2.012
13	0.086	0.015	0.505	0.901	0.455	0.496	0.601	1.469	2.133
14	0.094	0.017	0.462	0.887	0.410	0.530	0.577	1.513	2.261
15	0.102	0.018	0.419	0.873	0.365	0.561	0.555	1.558	2.397
16	0.111	0.020	0.376	0.857	0.322	0.589	0.534	1.605	2.540
17	0.121	0.023	0.334	0.839	0.280	0.613	0.513	1.653	2.693
18	0.131	0.025	0.294	0.820	0.241	0.632	0.494	1.702	2.854
19	0.141	0.028	0.255	0.799	0.204	0.647	0.475	1.754	3.026
20	0.151	0.032	0.219	0.777	0.170	0.655	0.456	1.806	3.207
21	0.162	0.035	0.186	0.752	0.140	0.658	0.439	1.860	3.400
22	0.173	0.039	0.156	0.725	0.113	0.655	0.422	1.916	3.604
23	0.186	0.044	0.129	0.697	0.090	0.646	0.406	1.974	3.820
24	0.201	0.049	0.105	0.666	0.070	0.631	0.390	2.033	4.049
25	0.218	0.055	0.084	0.633	0.053	0.611	0.375	2.094	4.292
26	0.237	0.061	0.066	0.599	0.039	0.586	0.361	2.157	4.549
27	0.258	0.068	0.050	0.562	0.028	0.556	0.347	2.221	4.822
28	0.282	0.075	0.037	0.524	0.019	0.522	0.333	2.288	5.112
29	0.309	0.084	0.027	0.485	0.013	0.485	0.321	2.357	5.418
30	0.339	0.094	0.018	0.444	0.008	0.446	0.308	2.427	5.743
31	0.371	0.105	0.012	0.402	0.005	0.405	0.296	2.500	6.088
32	0.406	0.116	0.008	0.360	0.003	0.362	0.285	2.575	6.453
33	0.444	0.129	0.005	0.318	0.001	0.320	0.274	2.652	6.841
34	0.475	0.142	0.003	0.277	0.001	0.278	0.264	2.732	7.251
35	0.506	0.156	0.001	0.238	0.000	0.239	0.253	2.814	7.686
36	0.539	0.171	0.001	0.201	0.000	0.201	0.244	2.898	8.147
37	0.575	0.186	0.000	0.167	0.000	0.167	0.234	2.985	8.636
38	0.616	0.203	0.000	0.136	0.000	0.136	0.225	3.075	9.154
39	0.661	0.220	0.000	0.108	0.000	0.108	0.217	3.167	9.704
40	0.713	0.238	0.000	0.084	0.000	0.084	0.208	3.262	10.286
41	0.773	0.257	0.000	0.064	0.000	0.064	0.200	3.360	10.903
42	0.841	0.276	0.000	0.048	0.000	0.048	0.193	3.461	11.557
43	0.918	0.297	0.000	0.035	0.000	0.035	0.185	3.565	12.250
44	1.000	0.317	0.000	0.024	0.000	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 67

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	67.00	M		
	CLAIMANT 2 (y)	63.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			13.84	10.36
(12)	APV FOR CLAIMANT 2			35.86	20.75
(13)	APV FOR BOTH CLAIMANTS ALIVE			12.42	9.53
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			24.87	12.06
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			107,051	80,125
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			336,305	203,727
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			17.737	12.744
(23)	APV OF MEDICAL BENEFIT			112,805	81,050

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.007	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.008	0.954	0.993	0.948	0.052	0.962	1.030	1.060
2	0.055	0.009	0.907	0.986	0.894	0.105	0.925	1.061	1.124
3	0.059	0.010	0.857	0.977	0.837	0.159	0.889	1.093	1.191
4	0.064	0.011	0.806	0.968	0.780	0.214	0.855	1.126	1.262
5	0.069	0.012	0.754	0.957	0.722	0.267	0.822	1.159	1.338
6	0.074	0.013	0.703	0.946	0.665	0.319	0.790	1.194	1.419
7	0.080	0.014	0.651	0.934	0.608	0.369	0.760	1.230	1.504
8	0.086	0.015	0.599	0.921	0.552	0.417	0.731	1.267	1.594
9	0.094	0.017	0.547	0.907	0.497	0.461	0.703	1.305	1.689
10	0.102	0.018	0.496	0.892	0.443	0.503	0.676	1.344	1.791
11	0.111	0.020	0.445	0.876	0.390	0.541	0.650	1.384	1.898
12	0.121	0.023	0.396	0.858	0.340	0.575	0.625	1.426	2.012
13	0.131	0.025	0.348	0.839	0.292	0.603	0.601	1.469	2.133
14	0.141	0.028	0.302	0.818	0.247	0.626	0.577	1.513	2.261
15	0.151	0.032	0.260	0.794	0.206	0.641	0.555	1.558	2.397
16	0.162	0.035	0.221	0.769	0.170	0.650	0.534	1.605	2.540
17	0.173	0.039	0.185	0.742	0.137	0.653	0.513	1.653	2.693
18	0.186	0.044	0.153	0.713	0.109	0.648	0.494	1.702	2.854
19	0.201	0.049	0.124	0.681	0.085	0.636	0.475	1.754	3.026
20	0.218	0.055	0.099	0.648	0.064	0.619	0.456	1.806	3.207
21	0.237	0.061	0.078	0.612	0.048	0.595	0.439	1.860	3.400
22	0.258	0.068	0.059	0.575	0.034	0.566	0.422	1.916	3.604
23	0.282	0.075	0.044	0.536	0.024	0.533	0.406	1.974	3.820
24	0.309	0.084	0.032	0.496	0.016	0.496	0.390	2.033	4.049
25	0.339	0.094	0.022	0.454	0.010	0.456	0.375	2.094	4.292
26	0.371	0.105	0.014	0.411	0.006	0.414	0.361	2.157	4.549
27	0.406	0.116	0.009	0.368	0.003	0.371	0.347	2.221	4.822
28	0.444	0.129	0.005	0.326	0.002	0.327	0.333	2.288	5.112
29	0.475	0.142	0.003	0.284	0.001	0.285	0.321	2.357	5.418
30	0.506	0.156	0.002	0.243	0.000	0.244	0.308	2.427	5.743
31	0.539	0.171	0.001	0.205	0.000	0.206	0.296	2.500	6.088
32	0.575	0.186	0.000	0.170	0.000	0.171	0.285	2.575	6.453
33	0.616	0.203	0.000	0.139	0.000	0.139	0.274	2.652	6.841
34	0.661	0.220	0.000	0.111	0.000	0.111	0.264	2.732	7.251
35	0.713	0.238	0.000	0.086	0.000	0.086	0.253	2.814	7.686
36	0.773	0.257	0.000	0.066	0.000	0.066	0.244	2.898	8.147
37	0.841	0.276	0.000	0.049	0.000	0.049	0.234	2.985	8.636
38	0.918	0.297	0.000	0.035	0.000	0.035	0.225	3.075	9.154
39	1.000	0.317	0.000	0.025	0.000	0.025	0.217	3.167	9.704
40	-	0.339	-	0.017	-	0.017	0.208	3.262	10.286
41	-	0.361	-	0.011	-	0.011	0.200	3.360	10.903
42	-	0.384	-	0.007	-	0.007	0.193	3.461	11.557
43	-	0.405	-	0.004	-	0.004	0.185	3.565	12.250
44	-	0.425	-	0.003	-	0.003	0.178	3.671	12.985
45	-	0.444	-	0.002	-	0.002	0.171	3.782	13.765
46	-	0.464	-	0.001	-	0.001	0.165	3.895	14.590
47	-	0.482	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.495	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	1.000	-	0.000	-	0.000	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 72

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	72.00	M		
	CLAIMANT 2 (y)	68.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			10.36	8.24
(12)	APV FOR CLAIMANT 2			27.60	17.45
(13)	APV FOR BOTH CLAIMANTS ALIVE			9.19	7.48
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			19.57	10.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			80,072	63,682
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			257,933	169,690
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			12.549	9.704
(23)	APV OF MEDICAL BENEFIT			79,809	61,718

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.013	0.931	0.988	0.920	0.079	0.962	1.030	1.060
2	0.080	0.014	0.863	0.976	0.842	0.155	0.925	1.061	1.124
3	0.086	0.015	0.794	0.962	0.764	0.228	0.889	1.093	1.191
4	0.094	0.017	0.726	0.948	0.688	0.298	0.855	1.126	1.262
5	0.102	0.018	0.658	0.932	0.613	0.364	0.822	1.159	1.338
6	0.111	0.020	0.590	0.915	0.540	0.425	0.790	1.194	1.419
7	0.121	0.023	0.525	0.896	0.470	0.480	0.760	1.230	1.504
8	0.131	0.025	0.461	0.876	0.404	0.529	0.731	1.267	1.594
9	0.141	0.028	0.401	0.854	0.342	0.570	0.703	1.305	1.689
10	0.151	0.032	0.344	0.830	0.286	0.603	0.676	1.344	1.791
11	0.162	0.035	0.292	0.803	0.235	0.626	0.650	1.384	1.898
12	0.173	0.039	0.245	0.775	0.190	0.640	0.625	1.426	2.012
13	0.186	0.044	0.203	0.744	0.151	0.645	0.601	1.469	2.133
14	0.201	0.049	0.165	0.712	0.117	0.642	0.577	1.513	2.261
15	0.218	0.055	0.132	0.677	0.089	0.630	0.555	1.558	2.397
16	0.237	0.061	0.103	0.640	0.066	0.611	0.534	1.605	2.540
17	0.258	0.068	0.079	0.601	0.047	0.585	0.513	1.653	2.693
18	0.282	0.075	0.058	0.560	0.033	0.553	0.494	1.702	2.854
19	0.309	0.084	0.042	0.518	0.022	0.516	0.475	1.754	3.026
20	0.339	0.094	0.029	0.474	0.014	0.476	0.456	1.806	3.207
21	0.371	0.105	0.019	0.430	0.008	0.432	0.439	1.860	3.400
22	0.406	0.116	0.012	0.385	0.005	0.388	0.422	1.916	3.604
23	0.444	0.129	0.007	0.340	0.002	0.342	0.406	1.974	3.820
24	0.475	0.142	0.004	0.296	0.001	0.298	0.390	2.033	4.049
25	0.506	0.156	0.002	0.254	0.001	0.255	0.375	2.094	4.292
26	0.539	0.171	0.001	0.215	0.000	0.215	0.361	2.157	4.549
27	0.575	0.186	0.000	0.178	0.000	0.178	0.347	2.221	4.822
28	0.616	0.203	0.000	0.145	0.000	0.145	0.333	2.288	5.112
29	0.661	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.713	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.773	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.841	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.918	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	1.000	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	-	0.339	-	0.018	-	0.018	0.253	2.814	7.686
36	-	0.361	-	0.012	-	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR TERMINATED MINER CLAIMS AT ENTITLEMENT AGE 80

		Age	Sex
	CLAIMANT 1 (x)	80.00	M
	CLAIMANT 2 (y)	76.00	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(11)	APV FOR CLAIMANT 1	6.31	5.44
(12)	APV FOR CLAIMANT 2	17.26	12.43
(13)	APV FOR BOTH CLAIMANTS ALIVE	5.49	4.83
(14)	APV FOR ONLY 1 CLAIMANT ALIVE	12.58	8.21
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY	48,769	42,100
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.	160,968	119,514
	MEDICAL PAYMENTS		
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT	7.108	6.053
(23)	APV OF MEDICAL BENEFIT	45,206	38,495

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.131	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.141	0.028	0.869	0.975	0.847	0.150	0.962	1.030	1.060
2	0.151	0.032	0.747	0.947	0.707	0.279	0.925	1.061	1.124
3	0.162	0.035	0.634	0.917	0.581	0.388	0.889	1.093	1.191
4	0.173	0.039	0.531	0.885	0.470	0.476	0.855	1.126	1.262
5	0.186	0.044	0.439	0.850	0.373	0.543	0.822	1.159	1.338
6	0.201	0.049	0.357	0.812	0.290	0.589	0.790	1.194	1.419
7	0.218	0.055	0.285	0.772	0.220	0.617	0.760	1.230	1.504
8	0.237	0.061	0.223	0.730	0.163	0.627	0.731	1.267	1.594
9	0.258	0.068	0.170	0.686	0.117	0.622	0.703	1.305	1.689
10	0.282	0.075	0.126	0.639	0.081	0.604	0.676	1.344	1.791
11	0.309	0.084	0.091	0.591	0.054	0.574	0.650	1.384	1.898
12	0.339	0.094	0.063	0.541	0.034	0.536	0.625	1.426	2.012
13	0.371	0.105	0.041	0.491	0.020	0.491	0.601	1.469	2.133
14	0.406	0.116	0.026	0.439	0.011	0.442	0.577	1.513	2.261
15	0.444	0.129	0.015	0.388	0.006	0.392	0.555	1.558	2.397
16	0.475	0.142	0.009	0.338	0.003	0.341	0.534	1.605	2.540
17	0.506	0.156	0.005	0.290	0.001	0.292	0.513	1.653	2.693
18	0.539	0.171	0.002	0.245	0.001	0.246	0.494	1.702	2.854
19	0.575	0.186	0.001	0.203	0.000	0.204	0.475	1.754	3.026
20	0.616	0.203	0.000	0.165	0.000	0.166	0.456	1.806	3.207
21	0.661	0.220	0.000	0.132	0.000	0.132	0.439	1.860	3.400
22	0.713	0.238	0.000	0.103	0.000	0.103	0.422	1.916	3.604
23	0.773	0.257	0.000	0.078	0.000	0.078	0.406	1.974	3.820
24	0.841	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	0.918	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	1.000	0.317	0.000	0.030	0.000	0.030	0.361	2.157	4.549
27	-	0.339	-	0.020	-	0.020	0.347	2.221	4.822
28	-	0.361	-	0.013	-	0.013	0.333	2.288	5.112
29	-	0.384	-	0.009	-	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF WEIGHTED NOMINAL BENEFITS PER CLAIM FOR TERMINATED MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 42			NOMINAL ESTIMATES AT ENTITLEMENT AGE 47			NOMINAL ESTIMATES AT ENTITLEMENT AGE 52			NOMINAL ESTIMATES AT ENTITLEMENT AGE 57			NOMINAL ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	1,045,947	2,371,518	93,409	956,658	2,236,046	131,892	848,187	2,060,537	179,388	722,610	1,836,880	245,898	583,227	1,560,361	330,868
20 - 24	885,582	1,690,183	63,939	809,983	1,593,632	96,951	718,143	1,468,547	137,922	611,819	1,309,146	195,163	493,807	1,112,071	268,156
25 - 29	793,954	1,350,908	46,221	726,177	1,273,738	76,132	643,840	1,173,761	113,420	548,516	1,046,358	165,419	442,714	888,842	231,628
30 - 34	693,530	1,022,239	27,007	634,326	963,844	53,514	562,403	888,191	86,754	479,137	791,784	132,994	386,717	672,591	191,756
35 - 39	605,996	773,773	11,781	554,264	729,572	35,277	491,419	672,307	64,913	418,662	599,333	106,041	337,907	509,111	158,205
40 - 44	545,465	620,921	-	486,441	554,675	17,643	431,286	511,138	44,338	367,432	455,657	81,274	296,559	387,064	128,004
45 - 49	545,465	620,921	-	442,406	449,733	-	383,470	393,695	20,191	326,695	350,962	54,309	263,680	298,130	97,304
50 - 54	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	294,277	273,861	26,637	237,514	232,635	67,161
55 - 59	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	220,015	186,678	32,704
60 - 64	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
65 - 69	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
70 - 74	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
75 - 79	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
80 - 84	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
85 - 89	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 67			NOMINAL ESTIMATES AT ENTITLEMENT AGE 72			NOMINAL ESTIMATES AT ENTITLEMENT AGE 80			NOMINAL ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	434,339	1,234,271	437,065	287,706	881,563	552,859	103,638	367,025	651,355	587,921	1,545,958	337,352
20 - 24	367,746	879,666	359,202	243,594	628,291	458,411	87,748	261,579	543,819	497,781	1,101,806	273,640
25 - 29	329,697	703,089	314,084	218,391	502,173	403,884	78,669	209,072	481,932	446,278	880,638	236,542
30 - 34	287,994	532,031	264,780	190,767	379,997	344,254	68,718	158,206	414,206	389,830	666,383	196,043
35 - 39	251,645	402,715	222,896	166,690	287,634	293,250	60,045	119,752	355,944	340,627	504,412	161,947
40 - 44	220,852	306,174	185,803	146,292	218,681	248,605	52,698	91,044	305,450	299,199	384,097	131,347
45 - 49	196,367	235,825	150,255	130,073	168,435	207,704	46,855	70,125	261,020	258,422	289,796	105,097
50 - 54	176,881	184,018	116,792	117,166	131,433	170,538	42,206	54,720	222,006	225,853	221,452	79,439
55 - 59	163,848	147,665	81,466	108,533	105,468	134,129	39,096	43,910	186,765	201,502	173,694	52,081
60 - 64	158,156	123,475	41,499	104,763	88,191	96,332	37,738	36,717	154,030	178,553	137,582	28,065
65 - 69	162,072	112,805	-	109,199	79,633	50,360	39,336	33,154	120,911	144,012	101,406	17,304
70 - 74	162,072	112,805	-	122,759	79,809	-	46,098	33,658	82,851	122,759	79,809	-
75 - 79	162,072	112,805	-	122,759	79,809	-	62,736	39,680	30,974	62,736	39,680	30,974
80 - 84	162,072	112,805	-	122,759	79,809	-	75,697	45,206	-	75,697	45,206	-
85 - 89	162,072	112,805	-	122,759	79,809	-	75,697	45,206	-	75,697	45,206	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8A, EXHIBIT 4, SHEET 2A, COL. (16), (17), (18)
(5)-(7) SECTION 8A, EXHIBIT 4, SHEET 2B, COL. (16), (17), (18)
(8)-(10) SECTION 8A, EXHIBIT 4, SHEET 2C, COL. (16), (17), (18)
(11)-(13) SECTION 8A, EXHIBIT 4, SHEET 2D, COL. (16), (17), (18)
(14)-(16) SECTION 8A, EXHIBIT 4, SHEET 2E, COL. (16), (17), (18)
(17)-(19) SECTION 8A, EXHIBIT 4, SHEET 2F, COL. (16), (17), (18)
(20) - (22) SECTION 8A, EXHIBIT 4, SHEET 2G, COL. (16), (17), (18)
(23) - (25) SECTION 8A, EXHIBIT 4, SHEET 2H, COL. (16), (17), (18)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25)
USING WEIGHTS FROM SECTION 8A, NOT PRINTED, NOT PRINTED

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF WEIGHTED DISCOUNTED BENEFITS PER CLAIM FOR TERMINATED MINERS

	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 42			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 47			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 52			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 57			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 62		
CURRENT AGE GROUP OF ACTIVE MINERS	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	181,904	393,768	12,967	149,506	345,018	16,520	119,089	293,113	20,433	90,831	238,727	25,464	65,295	183,430	31,051
20 - 24	194,878	355,097	11,231	160,169	311,135	15,365	127,582	264,328	19,878	97,309	215,283	25,573	69,952	165,416	31,842
25 - 29	204,391	332,027	9,498	167,988	290,921	14,115	133,810	247,154	19,123	102,060	201,296	25,357	73,367	154,669	32,177
30 - 34	217,219	305,679	6,752	178,531	267,835	12,071	142,209	227,542	17,796	108,465	185,323	24,803	77,972	142,395	32,409
35 - 39	230,924	281,510	3,583	189,795	246,658	9,681	151,181	209,551	16,200	115,309	170,670	24,061	82,891	131,137	32,531
40 - 44	243,164	264,271	-	202,659	228,157	5,891	161,427	193,832	13,463	123,124	157,868	22,437	88,509	121,300	32,024
45 - 49	243,164	264,271	-	215,621	216,413	-	174,626	181,642	7,459	133,191	147,939	18,241	95,746	113,671	29,617
50 - 54	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	145,967	140,449	10,885	104,930	107,916	24,871
55 - 59	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	118,258	105,359	14,735
60 - 64	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
65 - 69	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
70 - 74	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
75 - 79	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
80 - 84	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
85 - 89	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-

	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 67			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 72			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 80			DISCOUNTED ESTIMATES WEIGHTED BENEFITS		
CURRENT AGE GROUP OF ACTIVE MINERS	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	43,057	129,779	37,012	25,124	82,001	42,046	7,302	27,469	41,229	70,281	189,498	30,653
20 - 24	46,128	117,034	38,489	26,916	73,948	44,113	7,822	24,771	43,555	75,293	170,888	31,372
25 - 29	48,380	109,430	39,371	28,230	69,143	45,467	8,204	23,162	45,154	78,969	159,786	31,646
30 - 34	51,417	100,747	40,382	30,002	63,657	47,151	8,719	21,324	47,217	83,925	147,106	31,790
35 - 39	54,661	92,781	41,359	31,895	58,623	48,867	9,269	19,638	49,366	89,220	135,475	31,814
40 - 44	58,365	85,822	41,946	34,056	54,226	50,403	9,897	18,165	51,541	95,204	125,385	31,197
45 - 49	63,137	80,424	41,270	36,841	50,816	51,234	10,707	17,022	53,587	97,563	113,063	29,970
50 - 54	69,194	76,352	39,028	40,375	48,243	51,180	11,734	16,160	55,452	101,305	103,211	27,055
55 - 59	77,982	74,543	33,122	45,503	47,100	48,974	13,224	15,778	56,756	106,564	95,945	20,837
60 - 64	91,581	75,836	20,528	53,438	47,917	42,794	15,530	16,051	56,949	107,941	87,516	13,036
65 - 69	109,789	81,050	-	67,769	52,641	27,219	19,695	17,634	54,389	95,627	71,411	9,072
70 - 74	109,789	81,050	-	89,124	61,718	-	28,081	21,780	45,344	89,124	61,718	-
75 - 79	109,789	81,050	-	89,124	61,718	-	46,496	31,241	20,624	46,496	31,241	20,624
80 - 84	109,789	81,050	-	89,124	61,718	-	60,680	38,495	-	60,680	38,495	-
85 - 89	109,789	81,050	-	89,124	61,718	-	60,680	38,495	-	60,680	38,495	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8A, EXHIBIT 4, SHEET 2A, COL. (19), (20), (21)
(5)-(7) SECTION 8A, EXHIBIT 4, SHEET 2B, COL. (19), (20), (21)
(8)-(10) SECTION 8A, EXHIBIT 4, SHEET 2C, COL. (19), (20), (21)
(11)-(13) SECTION 8A, EXHIBIT 4, SHEET 2D, COL. (19), (20), (21)
(14)-(16) SECTION 8A, EXHIBIT 4, SHEET 2E, COL. (19), (20), (21)
(17)-(19) SECTION 8A, EXHIBIT 4, SHEET 2F, COL. (19), (20), (21)
(20) - (22) SECTION 8A, EXHIBIT 4, SHEET 2G, COL. (19), (20), (21)
(23) - (25) SECTION 8A, EXHIBIT 4, SHEET 2H, COL. (19), (20), (21)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25) USING WEIGHTS FROM SECTION 8A, NOT PRINTED, NOT PRINTED

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF LIABILITY FOR ACTIVE MINERS - LOW ESTIMATE

	LOW
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	10%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	19	0.8%	22	2	-	571,737	325,981	1,460,852	1,143,474	2,921,703	4,065,177	100%	4,065,177
20 - 24	23	6.3%	171	17	3	511,679	283,552	1,165,555	9,549,195	19,814,429	29,363,624	100%	29,363,624
25 - 29	28	9.9%	267	27	5	446,278	236,542	880,638	13,232,204	23,777,213	37,009,417	100%	37,009,417
30 - 34	33	11.1%	298	30	5	389,830	196,043	666,383	12,675,107	19,991,483	32,666,590	100%	32,666,590
35 - 39	38	10.4%	280	28	5	340,627	161,947	504,412	10,347,298	14,123,523	24,470,822	100%	24,470,822
40 - 44	43	10.5%	283	28	5	299,199	131,347	384,097	9,034,305	10,754,718	19,789,023	100%	19,789,023
45 - 49	48	9.2%	249	25	5	258,422	105,097	289,796	6,986,034	7,244,903	14,230,937	100%	14,230,937
50 - 54	53	12.9%	347	35	6	225,853	79,439	221,452	8,381,482	7,750,837	16,132,318	100%	16,132,318
55 - 59	58	15.2%	408	41	7	201,502	52,081	173,694	8,626,170	7,121,455	15,747,625	100%	15,747,625
60 - 64	62	9.1%	245	25	5	178,724	32,103	139,289	4,628,629	3,482,226	8,110,855	100%	8,110,855
65 - 69	67	3.0%	82	8	1	143,475	20,417	101,680	1,168,220	813,442	1,981,662	100%	1,981,662
70 - 74	72	1.1%	29	3	1	122,759	-	79,809	368,276	239,427	607,703	100%	607,703
75 - 79	78	0.3%	7	1	-	62,736	30,974	39,680	62,736	39,680	102,416	100%	102,416
80 - 84	84	0.1%	4	-	-	75,697	-	45,206	-	-	-	100%	-
85 - 89	86	0.0%	1	-	-	75,697	-	45,206	-	-	-	100%	-
TOTAL			**2,693**	**270**	**48**				**86,203,129**	**118,075,039**	**204,278,168**		**204,278,168**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
71,080	30,792	186,229	142,159	372,457	514,617	100%	514,617
74,418	31,275	173,823	1,358,939	2,954,985	4,313,924	100%	4,313,924
78,969	31,646	159,786	2,290,385	4,314,211	6,604,596	100%	6,604,596
83,925	31,790	147,106	2,676,699	4,413,185	7,089,884	100%	7,089,884
89,220	31,814	135,475	2,657,231	3,793,297	6,450,528	100%	6,450,528
95,204	31,197	125,385	2,821,690	3,510,777	6,332,468	100%	6,332,468
97,563	29,970	113,063	2,588,915	2,826,579	5,415,494	100%	5,415,494
101,305	27,055	103,211	3,708,016	3,612,385	7,320,401	100%	7,320,401
106,564	20,837	95,945	4,514,983	3,933,746	8,448,728	100%	8,448,728
106,561	14,398	87,260	2,736,023	2,181,496	4,917,519	100%	4,917,519
94,554	10,325	70,996	766,760	567,968	1,334,727	100%	1,334,727
89,124	-	61,718	267,373	185,155	452,528	100%	452,528.06
46,496	20,624	31,241	46,496	31,241	77,736	100%	77,736
60,680	-	38,495	-	-	-	100%	-
60,680	-	38,495	-	-	-	100%	-
	TOTAL		**26,575,669**	**32,697,481**	**59,273,150**		**59,273,150**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (26)
(7A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (26)
(8) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (28)
(8A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (28)

(9) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (27)
(9A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) ACTIVE MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8A, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF LIABILITY FOR ACTIVE MINERS - HIGH ESTIMATE

	HIGH
(A) PROB OF CLAIM FILING	100%
(B) PROB OF FILING BEING ENTITLED	15%
(C) SURVIVOR FREQUENCY LOAD	18%

NOMINAL ESTIMATES

CURRENT AGE GROUP OF ACTIVE MINERS (1)	AVERAGE AGE (2)	% OF MINERS (3)	NUMBER OF MINERS (4)	NUMBER OF MINER CLAIMS (5)	NUMBER OF SURVIVOR CLAIMS (6)	MINER INDEMNITY PER CLAIM (7)	SURVIVOR INDEMNITY PER CLAIM (8)	MINER MEDICAL PER CLAIM (9)	TOTAL INDEMNITY (10)	TOTAL MEDICAL (11)	TOTAL (12)	% ACCRUED (13)	ACCRUED LIABILITY (14)
14 - 19	19	0.8%	22	3	1	571,737	325,981	1,460,852	2,041,192	4,382,555	6,423,747	100%	6,423,747
20 - 24	23	6.3%	171	26	5	511,679	283,552	1,165,555	14,721,407	30,304,421	45,025,828	100%	45,025,828
25 - 29	28	9.9%	267	40	7	446,278	236,542	880,638	19,506,897	35,225,501	54,732,397	100%	54,732,397
30 - 34	33	11.1%	298	45	8	389,830	196,043	666,383	19,110,681	29,987,225	49,097,906	100%	49,097,906
35 - 39	38	10.4%	280	42	8	340,627	161,947	504,412	15,601,921	21,185,285	36,787,206	100%	36,787,206
40 - 44	43	10.5%	283	42	8	299,199	131,347	384,097	13,617,131	16,132,077	29,749,208	100%	29,749,208
45 - 49	48	9.2%	249	37	7	258,422	105,097	289,796	10,297,291	10,722,456	21,019,747	100%	21,019,747
50 - 54	53	12.9%	347	52	9	225,853	79,439	221,452	12,459,296	11,515,529	23,974,824	100%	23,974,824
55 - 59	58	15.2%	408	61	11	201,502	52,081	173,694	12,864,544	10,595,336	23,459,880	100%	23,459,880
60 - 64	62	9.1%	245	37	7	178,724	32,103	139,289	6,837,530	5,153,694	11,991,224	100%	11,991,224
65 - 69	67	3.0%	82	12	2	143,475	20,417	101,680	1,762,538	1,220,163	2,982,701	100%	2,982,701
70 - 74	72	1.1%	29	4	1	122,759	-	79,809	491,035	319,235	810,270	100%	810,270
75 - 79	78	0.3%	7	1	-	62,736	30,974	39,680	62,736	39,680	102,416	100%	102,416
80 - 84	84	0.1%	4	1	-	75,697	-	45,206	75,697	45,206	120,903	100%	120,903
85 - 89	86	0.0%	1	-	-	75,697	-	45,206	-	-	-	100%	-
TOTAL			**2,693**	**403**	**74**				**129,449,897**	**176,828,363**	**306,278,260**		**306,278,260**

DISCOUNTED ESTIMATES

MINER INDEMNITY PER CLAIM (7A)	SURVIVOR INDEMNITY PER CLAIM (8A)	MINER MEDICAL PER CLAIM (9A)	TOTAL INDEMNITY (10A)	TOTAL MEDICAL (11A)	TOTAL (12A)	% ACCRUED (13A)	ACCRUED LIABILITY (14A)
71,080	30,792	186,229	244,031	558,686	802,717	100%	802,717
74,418	31,275	173,823	2,091,255	4,519,389	6,610,644	100%	6,610,644
78,969	31,646	159,786	3,380,270	6,391,423	9,771,693	100%	9,771,693
83,925	31,790	147,106	4,030,944	6,619,777	10,650,721	100%	10,650,721
89,220	31,814	135,475	4,001,754	5,689,946	9,691,699	100%	9,691,699
95,204	31,197	125,385	4,248,134	5,266,166	9,514,300	100%	9,514,300
97,563	29,970	113,063	3,819,607	4,183,337	8,002,944	100%	8,002,944
101,305	27,055	103,211	5,511,372	5,366,971	10,878,343	100%	10,878,343
106,564	20,837	95,945	6,729,611	5,852,646	12,582,257	100%	12,582,257
106,561	14,398	87,260	4,043,554	3,228,614	7,272,169	100%	7,272,169
94,554	10,325	70,996	1,155,302	851,952	2,007,253	100%	2,007,253
89,124	-	61,718	356,497	246,874	603,371	100%	603,371
46,496	20,624	31,241	46,496	31,241	77,736	100%	77,736
60,680	-	38,495	60,680	38,495	99,175	100%	99,175
60,680	-	38,495	-	-	-	100%	-
	TOTAL		**39,719,506**	**48,845,517**	**88,565,023**		**88,565,023**

(1) OHIO COAL SURVEY DATA
(2) OHIO COAL SURVEY DATA
(3) = (4) / (4, TOTAL)
(4) OHIO COAL SURVEY DATA
(5) = (4) * SELECTED PROB OF CLAIM FILING * SELECTED PROB OF FILING BEING ENTITLED
(6) = SELECTED SURVIVOR FREQUENCY LOAD * (4)
(7) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (26)
(7A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (26)
(8) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (28)
(8A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (28)

(9) SECTION 8A, EXHIBIT 5, SHEET 4, COL. (27)
(9A) SECTION 8A, EXHIBIT 5, SHEET 4A, COL. (27)
(10) & (10A) = (5) * (7) + (6) * (8)
(11) & (11A) = (5) * (9)
(12) & (12A) = (10) + (11)
(13) & (13A) ACTIVE MINER IS 100% OF THE LIABILITY
(E.G. NOT PRO-RATED FOR YEARS OF SERVICE)
(14) & (14A) = (12) * (13)
(A) SELECTED BY DELOITTE
(B) BASED ON ULTIMATE LIVING MINER ENTITLEMENT RATIOS FROM SECTION 8A, EXHIBIT 3, SHEET 4.2
(C) BASED ON OHIO AND COUNTRYWIDE DEPT. OF LABOR LIVING WIDOW ENTITLEMENT DATA

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 42

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	395,317	1,020,933	810,414	620,921
DISCOUNTED	196,703	390,292	288,373	264,271

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	1.974	3.820	0.406	24.0%	0.945	0.055	515,383	229,754	44,693	15,903	1,017,154	2,240,963	88,205	183,973	386,974	12,734
23	1.754	3.026	0.475	24.0%	0.952	0.048	519,135	231,427	39,119	13,920	910,306	1,787,974	68,595	192,614	361,195	11,585
28	1.513	2.261	0.577	24.0%	0.962	0.038	524,897	233,995	30,558	10,873	793,954	1,350,908	46,221	204,391	332,027	9,498
33	1.305	1.689	0.703	24.0%	0.974	0.026	531,533	236,954	20,699	7,365	693,530	1,022,239	27,007	217,219	305,679	6,752
38	1.126	1.262	0.855	24.0%	0.987	0.013	538,419	240,024	10,467	3,725	605,996	773,773	11,781	230,924	281,510	3,583
43	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
48	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
53	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
58	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
62	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
67	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
72	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
78	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
84	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-
86	1.000	1.000	1.000	24.0%	1.000	-	545,465	243,164	-	-	545,465	620,921	-	243,164	264,271	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3A, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3A, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3A, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3A, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 47

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	314,516	847,392	679,266	449,733
DISCOUNTED	171,696	354,715	265,329	216,413

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	2.288	5.112	0.333	24.0%	0.919	0.081	406,623	198,180	54,942	21,461	930,323	2,112,949	125,704	151,206	339,065	16,374
23	2.033	4.049	0.390	24.0%	0.926	0.074	409,583	199,623	50,397	19,686	832,597	1,685,837	102,447	158,308	316,478	15,612
28	1.754	3.026	0.475	24.0%	0.936	0.064	414,129	201,839	43,417	16,959	726,177	1,273,738	76,132	167,988	290,921	14,115
33	1.513	2.261	0.577	24.0%	0.948	0.052	419,364	204,390	35,379	13,819	634,326	963,844	53,514	178,531	267,835	12,071
38	1.305	1.689	0.703	24.0%	0.960	0.040	424,797	207,038	27,037	10,561	554,264	729,572	35,277	189,795	246,658	9,681
43	1.126	1.262	0.855	24.0%	0.977	0.023	432,197	210,645	15,676	6,123	486,441	554,675	17,643	202,659	228,157	5,891
48	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
53	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
58	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
62	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
67	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
72	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
78	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
84	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-
86	1.000	1.000	1.000	24.0%	1.000	-	442,406	215,621	-	-	442,406	449,733	-	215,621	216,413	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3B, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3B, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3B, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3B, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 52

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	246,008	687,941	555,769	322,245
DISCOUNTED	146,680	317,020	240,191	173,930

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	2.652	6.841	0.274	24.0%	0.883	0.117	310,986	165,673	64,857	28,030	824,838	1,947,102	172,023	120,443	288,056	20,377
23	2.357	5.418	0.321	24.0%	0.890	0.110	313,249	166,879	61,284	26,485	738,193	1,553,515	144,419	126,100	268,867	20,013
28	2.033	4.049	0.390	24.0%	0.900	0.100	316,726	168,732	55,795	24,113	643,840	1,173,761	113,420	133,810	247,154	19,123
33	1.754	3.026	0.475	24.0%	0.911	0.089	320,730	170,865	49,475	21,382	562,403	888,191	86,754	142,209	227,542	17,796
38	1.513	2.261	0.577	24.0%	0.923	0.077	324,886	173,078	42,915	18,547	491,419	672,307	64,913	151,181	209,551	16,200
43	1.305	1.689	0.703	24.0%	0.939	0.061	330,545	176,093	33,982	14,686	431,286	511,138	44,338	161,427	193,832	13,463
48	1.126	1.262	0.855	24.0%	0.968	0.032	340,708	181,507	17,939	7,753	383,470	393,695	20,191	174,626	181,642	7,459
53	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
58	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
62	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
67	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
72	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
78	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
84	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-
86	1.000	1.000	1.000	24.0%	1.000	-	352,072	187,561	-	-	352,072	322,245	-	187,561	173,930	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3C, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3C, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3C, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3C, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 57

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	189,529	550,072	447,542	229,036
DISCOUNTED	122,745	278,765	213,951	137,412

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	3.075	9.154	0.225	24.0%	0.828	0.172	228,542	132,617	77,034	36,827	702,717	1,735,758	236,864	91,864	234,609	25,510
23	2.732	7.251	0.264	24.0%	0.834	0.166	230,206	133,582	74,337	35,537	628,900	1,384,891	203,082	96,179	218,980	25,587
28	2.357	5.418	0.321	24.0%	0.843	0.157	232,761	135,065	70,195	33,557	548,516	1,046,358	165,419	102,060	201,296	25,357
33	2.033	4.049	0.390	24.0%	0.854	0.146	235,703	136,772	65,424	31,277	479,137	791,784	132,994	108,465	185,323	24,803
38	1.754	3.026	0.475	24.0%	0.865	0.135	238,757	138,544	60,474	28,910	418,662	599,333	106,041	115,309	170,670	24,061
43	1.513	2.261	0.577	24.0%	0.880	0.120	242,916	140,958	53,732	25,687	367,432	455,657	81,274	123,124	157,868	22,437
48	1.305	1.689	0.703	24.0%	0.907	0.093	250,385	145,292	41,623	19,898	326,695	350,962	54,309	133,191	147,939	18,241
53	1.126	1.262	0.855	24.0%	0.947	0.053	261,461	151,719	23,667	11,314	294,277	273,861	26,637	145,967	140,449	10,885
58	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
62	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
67	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
72	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
78	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
84	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-
86	1.000	1.000	1.000	24.0%	1.000	-	276,060	160,190	-	-	276,060	229,036	-	160,190	137,412	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3D, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3D, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3D, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3D, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
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(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 62

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	143,339	433,214	354,961	161,050
DISCOUNTED	100,187	240,563	187,095	106,334

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	3.565	12.250	0.185	24.0%	0.747	0.253	159,116	100,052	89,683	47,271	567,172	1,474,461	319,678	66,038	180,265	31,200
23	3.167	9.704	0.217	24.0%	0.753	0.247	160,274	100,780	87,752	46,253	507,593	1,176,413	277,914	69,140	168,256	31,732
28	2.732	7.251	0.264	24.0%	0.761	0.239	162,053	101,899	84,786	44,690	442,714	888,842	231,628	73,367	154,669	32,177
33	2.357	5.418	0.321	24.0%	0.771	0.229	164,102	103,187	81,371	42,889	386,717	672,591	191,756	77,972	142,395	32,409
38	2.033	4.049	0.390	24.0%	0.781	0.219	166,228	104,524	77,826	41,021	337,907	509,111	158,205	82,891	131,137	32,531
43	1.754	3.026	0.475	24.0%	0.794	0.206	169,124	106,345	72,999	38,477	296,559	387,064	128,004	88,509	121,300	32,024
48	1.513	2.261	0.577	24.0%	0.819	0.181	174,323	109,614	64,330	33,907	263,680	298,130	97,304	95,746	113,671	29,617
53	1.305	1.689	0.703	24.0%	0.855	0.145	182,035	114,463	51,473	27,131	237,514	232,635	67,161	104,930	107,916	24,871
58	1.126	1.262	0.855	24.0%	0.918	0.082	195,480	122,918	29,057	15,316	220,015	186,678	32,704	118,258	105,359	14,735
62	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
67	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
72	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
78	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
84	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-
86	1.000	1.000	1.000	24.0%	1.000	-	212,909	133,877	-	-	212,909	161,050	-	133,877	106,334	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3E, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3E, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3E, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3E, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
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(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
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(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 67

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	107,051	336,305	277,271	112,805
DISCOUNTED	80,125	203,727	160,450	81,050

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	4.132	16.394	0.152	24.0%	0.631	0.369	102,216	69,242	102,401	59,257	422,382	1,166,324	423,147	43,547	127,540	37,267
23	3.671	12.985	0.178	24.0%	0.635	0.365	102,960	69,746	101,128	58,520	378,013	930,563	371,287	45,592	119,044	38,254
28	3.167	9.704	0.217	24.0%	0.642	0.358	104,103	70,520	99,173	57,389	329,697	703,089	314,084	48,380	109,430	39,371
33	2.732	7.251	0.264	24.0%	0.650	0.350	105,419	71,412	96,922	56,086	287,994	532,031	264,780	51,417	100,747	40,382
38	2.357	5.418	0.321	24.0%	0.659	0.341	106,785	72,337	94,585	54,734	251,645	402,715	222,896	54,661	92,781	41,359
43	2.033	4.049	0.390	24.0%	0.670	0.330	108,645	73,597	91,403	52,893	220,852	306,174	185,803	58,365	85,822	41,946
48	1.754	3.026	0.475	24.0%	0.691	0.309	111,985	75,860	85,688	49,586	196,367	235,825	150,255	63,137	80,424	41,270
53	1.513	2.261	0.577	24.0%	0.722	0.278	116,939	79,216	77,213	44,681	176,881	184,018	116,792	69,194	76,352	39,028
58	1.305	1.689	0.703	24.0%	0.775	0.225	125,576	85,067	62,437	36,131	163,848	147,665	81,466	77,982	74,543	33,122
62	1.159	1.338	0.822	24.0%	0.844	0.156	136,772	92,651	43,282	25,046	158,557	127,393	50,176	88,282	75,233	23,865
67	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
72	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
78	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
84	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-
86	1.000	1.000	1.000	24.0%	1.000	-	162,072	109,789	-	-	162,072	112,805	-	109,789	81,050	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3F, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3F, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3F, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3F, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
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(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
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(18) = (6) * (14)
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(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 72

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	80,072	257,933	213,421	79,809
DISCOUNTED	63,682	169,690	134,942	61,718

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	4.790	21.939	0.125	24.0%	0.476	0.524	58,405	42,403	111,881	70,740	279,786	833,033	535,957	25,410	80,586	42,391
23	4.256	17.378	0.146	24.0%	0.479	0.521	58,830	42,712	111,142	70,273	250,395	664,643	473,045	26,603	75,218	43,770
28	3.671	12.985	0.178	24.0%	0.485	0.515	59,483	43,186	110,007	69,555	218,391	502,173	403,884	28,230	69,143	45,467
33	3.167	9.704	0.217	24.0%	0.491	0.509	60,235	43,732	108,699	68,729	190,767	379,997	344,254	30,002	63,657	47,151
38	2.732	7.251	0.264	24.0%	0.497	0.503	61,016	44,298	107,343	67,871	166,690	287,634	293,250	31,895	58,623	48,867
43	2.357	5.418	0.321	24.0%	0.506	0.494	62,079	45,070	105,495	66,702	146,292	218,681	248,605	34,056	54,226	50,403
48	2.033	4.049	0.390	24.0%	0.521	0.479	63,987	46,456	102,177	64,604	130,073	168,435	207,704	36,841	50,816	51,234
53	1.754	3.026	0.475	24.0%	0.544	0.456	66,818	48,511	97,255	61,493	117,166	131,433	170,538	40,375	48,243	51,180
58	1.513	2.261	0.577	24.0%	0.585	0.415	71,753	52,094	88,675	56,068	108,533	105,468	134,129	45,503	47,100	48,974
62	1.344	1.791	0.676	24.0%	0.637	0.363	78,151	56,738	77,553	49,035	105,028	90,989	104,225	51,513	47,536	44,519
67	1.159	1.338	0.822	24.0%	0.754	0.246	92,607	67,233	52,421	33,145	107,356	80,569	60,770	64,063	51,211	31,582
72	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
78	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
84	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-
86	1.000	1.000	1.000	24.0%	1.000	-	122,759	89,124	-	-	122,759	79,809	-	89,124	61,718	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3G, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3G, ROW 18
(3) SECTION 8A, EXHIBIT 5, SHEET 3G, ROW 12 * ROW 16
(4) SECTION 8A, EXHIBIT 5, SHEET 3G, ROW 23
(5) AVERAGE AGE OF THE GROUP
(6) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(7) MEDICAL INFLATION RATE @ 6% PER YEAR; TRENDED FROM AVERAGE AGE TO ENTITLEMENT AGE
(8) DISCOUNT FACTOR AT 4% FROM AVERAGE AGE TO ENTITLEMENT AGE
(9) BASED ON DEPARTMENT OF LABOR (DOL) FEDERAL BLACK LUNG 'DATABASE FOR COUNTRYWIDE AND OHIO ENTITLED CLAIMS
(10) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(11) CALCULATED BASED ON MORTALITY ASSUMPTIONS
(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF CURRENT SEVERITY OF ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 80

	INDEMNITY - IW	INDEMNITY - IW + 1 DEP.	INDEMNITY - SURVIVOR	MEDICAL - IW ONLY
	(1)	(2)	(3)	(4)
APV AT AGE OF CLAIM				
NOMINAL	48,769	160,968	133,439	45,206
DISCOUNTED	42,100	119,514	96,102	38,495

					PROBABILITY		PROBABILITY WEIGHTED INDEMNITY BENEFIT				NOMINAL VALUE			DISCOUNTED VALUE		
AVERAGE AGE	INDEMNITY TREND	MEDICAL TREND	DISCOUNT FACTOR	PERCENT OF MINERS MARRIED	MINER SURVIVES	MINER DIES	MINER NOMINAL	MINER DISCOUNTED	SURVIVOR NOMINAL	SURVIVOR DISCOUNTED	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY	MINER INDEMNITY	MINER MEDICAL	SURVIVOR INDEMNITY
(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)
19	6.068	34.967	0.091	24.0%	0.219	0.781	16,608	13,313	104,162	75,017	100,785	346,820	632,091	7,385	26,995	41,610
23	5.392	27.697	0.107	24.0%	0.221	0.779	16,729	13,410	103,949	74,863	90,198	276,714	560,456	7,731	25,196	43,161
28	4.651	20.697	0.130	24.0%	0.223	0.777	16,915	13,559	103,621	74,627	78,669	209,072	481,932	8,204	23,162	45,154
33	4.012	15.466	0.158	24.0%	0.226	0.774	17,129	13,731	103,245	74,356	68,718	158,206	414,206	8,719	21,324	47,217
38	3.461	11.557	0.193	24.0%	0.229	0.771	17,351	13,908	102,853	74,074	60,045	119,752	355,944	9,269	19,638	49,366
43	2.985	8.636	0.234	24.0%	0.233	0.767	17,653	14,151	102,321	73,691	52,698	91,044	305,450	9,897	18,165	51,541
48	2.575	6.453	0.285	24.0%	0.240	0.760	18,196	14,586	101,364	73,002	46,855	70,125	261,020	10,707	17,022	53,587
53	2.221	4.822	0.347	24.0%	0.251	0.749	19,000	15,231	99,945	71,980	42,206	54,720	222,006	11,734	16,160	55,452
58	1.916	3.604	0.422	24.0%	0.270	0.730	20,404	16,356	97,471	70,198	39,096	43,910	186,765	13,224	15,778	56,756
62	1.702	2.854	0.494	24.0%	0.294	0.706	22,223	17,814	94,264	67,888	37,833	37,882	160,478	14,971	15,924	57,051
67	1.469	2.133	0.601	24.0%	0.348	0.652	26,334	21,110	87,018	62,670	38,672	33,544	127,788	18,618	17,155	55,272
72	1.267	1.594	0.731	24.0%	0.461	0.539	34,908	27,983	71,903	51,784	44,220	33,227	91,085	25,901	20,675	47,932
78	1.061	1.124	0.925	24.0%	0.781	0.219	59,135	47,403	29,196	21,027	62,736	39,680	30,974	46,496	31,241	20,624
84	1.000	1.000	1.000	24.0%	1.000	-	75,697	60,680	-	-	75,697	45,206	-	60,680	38,495	-
86	1.000	1.000	1.000	24.0%	1.000	-	75,697	60,680	-	-	75,697	45,206	-	60,680	38,495	-

(1) SECTION 8A, EXHIBIT 5, SHEET 3H, ROW 17
(2) SECTION 8A, EXHIBIT 5, SHEET 3H, ROW 18
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(12) & (13) = [(1) * (10)] * [1 - (9)] + (2) * (10) * (9); NOMINAL AND DISCOUNTED RESPECTIVELY
(14) & (15) = (3) * (11); NOMINAL AND DISCOUNTED RESPECTIVELY
(16) = (6) * (12)
(17) = (4) * (7) * (10) ON A NOMINAL BASIS
(18) = (6) * (14)
(19) = (6) * (8) * (12)
(20) = (4) * (7) * (8) * (10) ON A DISCOUNTED BASIS
(21) = (6) * (8) * (15)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 42

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	42.00	M		
	CLAIMANT 2 (y)	38.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			51.12	25.44
(12)	APV FOR CLAIMANT 2			104.81	37.29
(13)	APV FOR BOTH CLAIMANTS ALIVE			47.78	24.51
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			60.37	13.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			395,317	196,703
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			1,020,933	390,292
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			97.629	41.552
(23)	APV OF MEDICAL BENEFIT			620,921	264,271

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.004	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.005	0.001	0.996	0.999	0.995	0.005	0.962	1.030	1.060
2	0.006	0.001	0.991	0.999	0.990	0.010	0.925	1.061	1.124
3	0.006	0.001	0.985	0.998	0.984	0.016	0.889	1.093	1.191
4	0.007	0.001	0.979	0.997	0.977	0.023	0.855	1.126	1.262
5	0.007	0.001	0.973	0.996	0.969	0.031	0.822	1.159	1.338
6	0.007	0.001	0.966	0.996	0.962	0.038	0.790	1.194	1.419
7	0.008	0.001	0.959	0.995	0.954	0.046	0.760	1.230	1.504
8	0.008	0.001	0.952	0.994	0.946	0.054	0.731	1.267	1.594
9	0.009	0.001	0.944	0.993	0.937	0.063	0.703	1.305	1.689
10	0.010	0.001	0.935	0.992	0.927	0.072	0.676	1.344	1.791
11	0.012	0.001	0.925	0.990	0.916	0.083	0.650	1.384	1.898
12	0.013	0.001	0.914	0.989	0.904	0.095	0.625	1.426	2.012
13	0.014	0.002	0.903	0.988	0.891	0.107	0.601	1.469	2.133
14	0.015	0.002	0.890	0.986	0.878	0.121	0.577	1.513	2.261
15	0.017	0.002	0.876	0.984	0.863	0.136	0.555	1.558	2.397
16	0.018	0.002	0.861	0.983	0.846	0.151	0.534	1.605	2.540
17	0.020	0.002	0.846	0.980	0.829	0.168	0.513	1.653	2.693
18	0.022	0.003	0.829	0.978	0.811	0.186	0.494	1.702	2.854
19	0.024	0.003	0.811	0.976	0.791	0.205	0.475	1.754	3.026
20	0.027	0.003	0.791	0.973	0.770	0.225	0.456	1.806	3.207
21	0.030	0.004	0.770	0.970	0.746	0.247	0.439	1.860	3.400
22	0.033	0.004	0.747	0.966	0.722	0.270	0.422	1.916	3.604
23	0.037	0.005	0.723	0.962	0.695	0.295	0.406	1.974	3.820
24	0.041	0.006	0.696	0.957	0.666	0.321	0.390	2.033	4.049
25	0.046	0.007	0.667	0.951	0.635	0.349	0.375	2.094	4.292
26	0.050	0.008	0.637	0.945	0.602	0.378	0.361	2.157	4.549
27	0.055	0.009	0.605	0.938	0.567	0.408	0.347	2.221	4.822
28	0.059	0.010	0.572	0.929	0.532	0.438	0.333	2.288	5.112
29	0.064	0.011	0.538	0.920	0.495	0.468	0.321	2.357	5.418
30	0.069	0.012	0.504	0.911	0.458	0.497	0.308	2.427	5.743
31	0.074	0.013	0.469	0.900	0.422	0.525	0.296	2.500	6.088
32	0.080	0.014	0.434	0.888	0.386	0.551	0.285	2.575	6.453
33	0.086	0.015	0.400	0.876	0.350	0.575	0.274	2.652	6.841
34	0.094	0.017	0.365	0.863	0.315	0.598	0.264	2.732	7.251
35	0.102	0.018	0.331	0.849	0.281	0.618	0.253	2.814	7.686
36	0.111	0.020	0.297	0.833	0.248	0.635	0.244	2.898	8.147
37	0.121	0.023	0.264	0.816	0.216	0.649	0.234	2.985	8.636
38	0.131	0.025	0.232	0.798	0.185	0.659	0.225	3.075	9.154
39	0.141	0.028	0.202	0.778	0.157	0.666	0.217	3.167	9.704
40	0.151	0.032	0.173	0.756	0.131	0.667	0.208	3.262	10.286
41	0.162	0.035	0.147	0.732	0.108	0.663	0.200	3.360	10.903
42	0.173	0.039	0.123	0.706	0.087	0.655	0.193	3.461	11.557
43	0.186	0.044	0.102	0.678	0.069	0.642	0.185	3.565	12.250
44	0.201	0.049	0.083	0.648	0.054	0.624	0.178	3.671	12.985
45	0.218	0.055	0.066	0.616	0.041	0.601	0.171	3.782	13.765
46	0.237	0.061	0.052	0.582	0.030	0.574	0.165	3.895	14.590
47	0.258	0.068	0.040	0.547	0.022	0.543	0.158	4.012	15.466
48	0.282	0.075	0.029	0.510	0.015	0.509	0.152	4.132	16.394
49	0.309	0.084	0.021	0.471	0.010	0.473	0.146	4.256	17.378
50	0.339	0.094	0.015	0.432	0.006	0.434	0.141	4.384	18.420
51	0.371	0.105	0.010	0.391	0.004	0.393	0.135	4.515	19.525
52	0.406	0.116	0.006	0.350	0.002	0.352	0.130	4.651	20.697
53	0.444	0.129	0.004	0.310	0.001	0.311	0.125	4.790	21.939
54	0.475	0.142	0.002	0.270	0.001	0.271	0.120	4.934	23.255
55	0.506	0.156	0.001	0.231	0.000	0.232	0.116	5.082	24.650
56	0.539	0.171	0.001	0.195	0.000	0.196	0.111	5.235	26.129
57	0.575	0.186	0.000	0.162	0.000	0.162	0.107	5.392	27.697
58	0.616	0.203	0.000	0.132	0.000	0.132	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 47

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	47.00	M		
	CLAIMANT 2 (y)	43.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			40.68	22.20
(12)	APV FOR CLAIMANT 2			87.85	34.31
(13)	APV FOR BOTH CLAIMANTS ALIVE			37.85	21.28
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			52.82	13.95
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			314,516	171,696
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			847,392	354,715
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			70.713	34.027
(23)	APV OF MEDICAL BENEFIT			449,733	216,413

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.007	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.007	0.001	0.993	0.999	0.992	0.008	0.962	1.030	1.060
2	0.008	0.001	0.986	0.998	0.984	0.016	0.925	1.061	1.124
3	0.008	0.001	0.978	0.997	0.976	0.024	0.889	1.093	1.191
4	0.009	0.001	0.970	0.996	0.966	0.033	0.855	1.126	1.262
5	0.010	0.001	0.961	0.995	0.956	0.043	0.822	1.159	1.338
6	0.012	0.001	0.951	0.994	0.945	0.054	0.790	1.194	1.419
7	0.013	0.001	0.940	0.993	0.933	0.067	0.760	1.230	1.504
8	0.014	0.002	0.928	0.991	0.920	0.080	0.731	1.267	1.594
9	0.015	0.002	0.915	0.990	0.905	0.094	0.703	1.305	1.689
10	0.017	0.002	0.901	0.988	0.890	0.109	0.676	1.344	1.791
11	0.018	0.002	0.886	0.986	0.873	0.125	0.650	1.384	1.898
12	0.020	0.002	0.869	0.984	0.855	0.142	0.625	1.426	2.012
13	0.022	0.003	0.852	0.982	0.836	0.161	0.601	1.469	2.133
14	0.024	0.003	0.833	0.979	0.816	0.181	0.577	1.513	2.261
15	0.027	0.003	0.813	0.976	0.794	0.202	0.555	1.558	2.397
16	0.030	0.004	0.791	0.973	0.770	0.224	0.534	1.605	2.540
17	0.033	0.004	0.768	0.969	0.744	0.248	0.513	1.653	2.693
18	0.037	0.005	0.743	0.965	0.717	0.274	0.494	1.702	2.854
19	0.041	0.006	0.715	0.960	0.687	0.302	0.475	1.754	3.026
20	0.046	0.007	0.686	0.954	0.655	0.331	0.456	1.806	3.207
21	0.050	0.008	0.655	0.948	0.621	0.361	0.439	1.860	3.400
22	0.055	0.009	0.622	0.941	0.585	0.392	0.422	1.916	3.604
23	0.059	0.010	0.588	0.933	0.548	0.424	0.406	1.974	3.820
24	0.064	0.011	0.553	0.924	0.511	0.455	0.390	2.033	4.049
25	0.069	0.012	0.518	0.914	0.473	0.485	0.375	2.094	4.292
26	0.074	0.013	0.482	0.903	0.435	0.514	0.361	2.157	4.549
27	0.080	0.014	0.447	0.892	0.398	0.542	0.347	2.221	4.822
28	0.086	0.015	0.411	0.879	0.361	0.568	0.333	2.288	5.112
29	0.094	0.017	0.376	0.866	0.325	0.591	0.321	2.357	5.418
30	0.102	0.018	0.340	0.852	0.290	0.612	0.308	2.427	5.743
31	0.111	0.020	0.306	0.836	0.256	0.631	0.296	2.500	6.088
32	0.121	0.023	0.272	0.819	0.222	0.646	0.285	2.575	6.453
33	0.131	0.025	0.239	0.801	0.191	0.657	0.274	2.652	6.841
34	0.141	0.028	0.207	0.780	0.162	0.664	0.264	2.732	7.251
35	0.151	0.032	0.178	0.758	0.135	0.666	0.253	2.814	7.686
36	0.162	0.035	0.151	0.734	0.111	0.663	0.244	2.898	8.147
37	0.173	0.039	0.127	0.708	0.090	0.655	0.234	2.985	8.636
38	0.186	0.044	0.105	0.680	0.071	0.642	0.225	3.075	9.154
39	0.201	0.049	0.085	0.650	0.055	0.625	0.217	3.167	9.704
40	0.218	0.055	0.068	0.618	0.042	0.602	0.208	3.262	10.286
41	0.237	0.061	0.053	0.584	0.031	0.575	0.200	3.360	10.903
42	0.258	0.068	0.041	0.549	0.022	0.545	0.193	3.461	11.557
43	0.282	0.075	0.030	0.512	0.015	0.511	0.185	3.565	12.250
44	0.309	0.084	0.022	0.473	0.010	0.474	0.178	3.671	12.985
45	0.339	0.094	0.015	0.433	0.006	0.435	0.171	3.782	13.765
46	0.371	0.105	0.010	0.393	0.004	0.395	0.165	3.895	14.590
47	0.406	0.116	0.006	0.352	0.002	0.353	0.158	4.012	15.466
48	0.444	0.129	0.004	0.311	0.001	0.312	0.152	4.132	16.394
49	0.475	0.142	0.002	0.271	0.001	0.272	0.146	4.256	17.378
50	0.506	0.156	0.001	0.232	0.000	0.233	0.141	4.384	18.420
51	0.539	0.171	0.001	0.196	0.000	0.196	0.135	4.515	19.525
52	0.575	0.186	0.000	0.163	0.000	0.163	0.130	4.651	20.697
53	0.616	0.203	0.000	0.132	0.000	0.132	0.125	4.790	21.939
54	0.661	0.220	0.000	0.106	0.000	0.106	0.120	4.934	23.255
55	0.713	0.238	0.000	0.082	0.000	0.082	0.116	5.082	24.650
56	0.773	0.257	0.000	0.063	0.000	0.063	0.111	5.235	26.129
57	0.841	0.276	0.000	0.047	0.000	0.047	0.107	5.392	27.697
58	0.918	0.297	0.000	0.034	0.000	0.034	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 52

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	52.00	M		
	CLAIMANT 2 (y)	48.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			31.82	18.97
(12)	APV FOR CLAIMANT 2			71.88	31.06
(13)	APV FOR BOTH CLAIMANTS ALIVE			29.43	18.06
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			44.82	13.91
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			246,008	146,680
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			687,941	317,020
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			50.667	27.347
(23)	APV OF MEDICAL BENEFIT			322,245	173,930

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.010	0.001	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.012	0.001	0.990	0.999	0.988	0.012	0.962	1.030	1.060
2	0.013	0.001	0.978	0.997	0.976	0.024	0.925	1.061	1.124
3	0.014	0.002	0.966	0.996	0.962	0.038	0.889	1.093	1.191
4	0.015	0.002	0.952	0.994	0.947	0.053	0.855	1.126	1.262
5	0.017	0.002	0.937	0.993	0.930	0.069	0.822	1.159	1.338
6	0.018	0.002	0.922	0.991	0.913	0.086	0.790	1.194	1.419
7	0.020	0.002	0.905	0.989	0.895	0.104	0.760	1.230	1.504
8	0.022	0.003	0.887	0.987	0.875	0.124	0.731	1.267	1.594
9	0.024	0.003	0.867	0.984	0.853	0.145	0.703	1.305	1.689
10	0.027	0.003	0.846	0.981	0.830	0.167	0.676	1.344	1.791
11	0.030	0.004	0.824	0.978	0.805	0.191	0.650	1.384	1.898
12	0.033	0.004	0.799	0.974	0.778	0.216	0.625	1.426	2.012
13	0.037	0.005	0.773	0.970	0.750	0.244	0.601	1.469	2.133
14	0.041	0.006	0.745	0.965	0.718	0.273	0.577	1.513	2.261
15	0.046	0.007	0.714	0.959	0.685	0.303	0.555	1.558	2.397
16	0.050	0.008	0.682	0.953	0.649	0.336	0.534	1.605	2.540
17	0.055	0.009	0.647	0.946	0.612	0.369	0.513	1.653	2.693
18	0.059	0.010	0.612	0.937	0.573	0.402	0.494	1.702	2.854
19	0.064	0.011	0.575	0.928	0.534	0.435	0.475	1.754	3.026
20	0.069	0.012	0.539	0.918	0.495	0.468	0.456	1.806	3.207
21	0.074	0.013	0.502	0.907	0.455	0.499	0.439	1.860	3.400
22	0.080	0.014	0.465	0.896	0.416	0.528	0.422	1.916	3.604
23	0.086	0.015	0.428	0.884	0.378	0.555	0.406	1.974	3.820
24	0.094	0.017	0.391	0.870	0.340	0.581	0.390	2.033	4.049
25	0.102	0.018	0.354	0.856	0.303	0.604	0.375	2.094	4.292
26	0.111	0.020	0.318	0.840	0.267	0.624	0.361	2.157	4.549
27	0.121	0.023	0.283	0.823	0.233	0.641	0.347	2.221	4.822
28	0.131	0.025	0.248	0.805	0.200	0.653	0.333	2.288	5.112
29	0.141	0.028	0.216	0.784	0.169	0.661	0.321	2.357	5.418
30	0.151	0.032	0.185	0.762	0.141	0.665	0.308	2.427	5.743
31	0.162	0.035	0.157	0.738	0.116	0.663	0.296	2.500	6.088
32	0.173	0.039	0.132	0.712	0.094	0.656	0.285	2.575	6.453
33	0.186	0.044	0.109	0.684	0.075	0.644	0.274	2.652	6.841
34	0.201	0.049	0.089	0.654	0.058	0.626	0.264	2.732	7.251
35	0.218	0.055	0.071	0.621	0.044	0.604	0.253	2.814	7.686
36	0.237	0.061	0.055	0.587	0.033	0.578	0.244	2.898	8.147
37	0.258	0.068	0.042	0.552	0.023	0.547	0.234	2.985	8.636
38	0.282	0.075	0.031	0.514	0.016	0.513	0.225	3.075	9.154
39	0.309	0.084	0.023	0.475	0.011	0.477	0.217	3.167	9.704
40	0.339	0.094	0.016	0.435	0.007	0.438	0.208	3.262	10.286
41	0.371	0.105	0.010	0.395	0.004	0.397	0.200	3.360	10.903
42	0.406	0.116	0.006	0.353	0.002	0.355	0.193	3.461	11.557
43	0.444	0.129	0.004	0.312	0.001	0.314	0.185	3.565	12.250
44	0.475	0.142	0.002	0.272	0.001	0.273	0.178	3.671	12.985
45	0.506	0.156	0.001	0.233	0.000	0.234	0.171	3.782	13.765
46	0.539	0.171	0.001	0.197	0.000	0.197	0.165	3.895	14.590
47	0.575	0.186	0.000	0.163	0.000	0.164	0.158	4.012	15.466
48	0.616	0.203	0.000	0.133	0.000	0.133	0.152	4.132	16.394
49	0.661	0.220	0.000	0.106	0.000	0.106	0.146	4.256	17.378
50	0.713	0.238	0.000	0.083	0.000	0.083	0.141	4.384	18.420
51	0.773	0.257	0.000	0.063	0.000	0.063	0.135	4.515	19.525
52	0.841	0.276	0.000	0.047	0.000	0.047	0.130	4.651	20.697
53	0.918	0.297	0.000	0.034	0.000	0.034	0.125	4.790	21.939
54	1.000	0.317	0.000	0.024	0.000	0.024	0.120	4.934	23.255
55	-	0.339	-	0.016	-	0.016	0.116	5.082	24.650
56	-	0.361	-	0.011	-	0.011	0.111	5.235	26.129
57	-	0.384	-	0.007	-	0.007	0.107	5.392	27.697
58	-	0.405	-	0.004	-	0.004	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 57

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	57.00	M		
	CLAIMANT 2 (y)	53.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			24.51	15.87
(12)	APV FOR CLAIMANT 2			57.88	27.67
(13)	APV FOR BOTH CLAIMANTS ALIVE			22.50	14.98
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			37.40	13.59
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			189,529	122,745
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			550,072	278,765
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			36.012	21.606
(23)	APV OF MEDICAL BENEFIT			229,036	137,412

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	0.002	0.983	0.998	0.981	0.019	0.962	1.030	1.060
2	0.020	0.002	0.965	0.996	0.961	0.039	0.925	1.061	1.124
3	0.022	0.003	0.946	0.994	0.940	0.060	0.889	1.093	1.191
4	0.024	0.003	0.925	0.991	0.917	0.082	0.855	1.126	1.262
5	0.027	0.003	0.903	0.988	0.892	0.107	0.822	1.159	1.338
6	0.030	0.004	0.879	0.985	0.865	0.133	0.790	1.194	1.419
7	0.033	0.004	0.853	0.981	0.837	0.161	0.760	1.230	1.504
8	0.037	0.005	0.825	0.977	0.806	0.190	0.731	1.267	1.594
9	0.041	0.006	0.794	0.972	0.772	0.222	0.703	1.305	1.689
10	0.046	0.007	0.762	0.966	0.736	0.256	0.676	1.344	1.791
11	0.050	0.008	0.727	0.960	0.698	0.291	0.650	1.384	1.898
12	0.055	0.009	0.691	0.952	0.658	0.327	0.625	1.426	2.012
13	0.059	0.010	0.653	0.944	0.616	0.364	0.601	1.469	2.133
14	0.064	0.011	0.614	0.935	0.574	0.401	0.577	1.513	2.261
15	0.069	0.012	0.575	0.925	0.532	0.437	0.555	1.558	2.397
16	0.074	0.013	0.535	0.914	0.489	0.471	0.534	1.605	2.540
17	0.080	0.014	0.496	0.902	0.447	0.503	0.513	1.653	2.693
18	0.086	0.015	0.456	0.890	0.406	0.534	0.494	1.702	2.854
19	0.094	0.017	0.417	0.877	0.366	0.563	0.475	1.754	3.026
20	0.102	0.018	0.378	0.862	0.326	0.588	0.456	1.806	3.207
21	0.111	0.020	0.339	0.846	0.287	0.611	0.439	1.860	3.400
22	0.121	0.023	0.301	0.829	0.250	0.631	0.422	1.916	3.604
23	0.131	0.025	0.265	0.810	0.215	0.646	0.406	1.974	3.820
24	0.141	0.028	0.230	0.790	0.182	0.656	0.390	2.033	4.049
25	0.151	0.032	0.198	0.767	0.152	0.662	0.375	2.094	4.292
26	0.162	0.035	0.168	0.743	0.125	0.661	0.361	2.157	4.549
27	0.173	0.039	0.141	0.717	0.101	0.656	0.347	2.221	4.822
28	0.186	0.044	0.116	0.689	0.080	0.645	0.333	2.288	5.112
29	0.201	0.049	0.095	0.658	0.062	0.628	0.321	2.357	5.418
30	0.218	0.055	0.076	0.626	0.047	0.607	0.308	2.427	5.743
31	0.237	0.061	0.059	0.592	0.035	0.581	0.296	2.500	6.088
32	0.258	0.068	0.045	0.556	0.025	0.551	0.285	2.575	6.453
33	0.282	0.075	0.033	0.518	0.017	0.517	0.274	2.652	6.841
34	0.309	0.084	0.024	0.479	0.012	0.480	0.264	2.732	7.251
35	0.339	0.094	0.017	0.439	0.007	0.441	0.253	2.814	7.686
36	0.371	0.105	0.011	0.398	0.004	0.400	0.244	2.898	8.147
37	0.406	0.116	0.007	0.356	0.002	0.358	0.234	2.985	8.636
38	0.444	0.129	0.004	0.315	0.001	0.316	0.225	3.075	9.154
39	0.475	0.142	0.002	0.274	0.001	0.275	0.217	3.167	9.704
40	0.506	0.156	0.001	0.235	0.000	0.236	0.208	3.262	10.286
41	0.539	0.171	0.001	0.198	0.000	0.199	0.200	3.360	10.903
42	0.575	0.186	0.000	0.165	0.000	0.165	0.193	3.461	11.557
43	0.616	0.203	0.000	0.134	0.000	0.134	0.185	3.565	12.250
44	0.661	0.220	0.000	0.107	0.000	0.107	0.178	3.671	12.985
45	0.713	0.238	0.000	0.083	0.000	0.083	0.171	3.782	13.765
46	0.773	0.257	0.000	0.064	0.000	0.064	0.165	3.895	14.590
47	0.841	0.276	0.000	0.047	0.000	0.047	0.158	4.012	15.466
48	0.918	0.297	0.000	0.034	0.000	0.034	0.152	4.132	16.394
49	1.000	0.317	0.000	0.024	0.000	0.024	0.146	4.256	17.378
50	-	0.339	-	0.016	-	0.016	0.141	4.384	18.420
51	-	0.361	-	0.011	-	0.011	0.135	4.515	19.525
52	-	0.384	-	0.007	-	0.007	0.130	4.651	20.697
53	-	0.405	-	0.004	-	0.004	0.125	4.790	21.939
54	-	0.425	-	0.003	-	0.003	0.120	4.934	23.255
55	-	0.444	-	0.001	-	0.001	0.116	5.082	24.650
56	-	0.464	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.482	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.495	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 62

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	62.00	M		
	CLAIMANT 2 (y)	58.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			18.54	12.96
(12)	APV FOR CLAIMANT 2			45.91	24.20
(13)	APV FOR BOTH CLAIMANTS ALIVE			16.83	12.08
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			30.78	12.99
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			143,339	100,187
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			433,214	240,563
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			25.322	16.719
(23)	APV OF MEDICAL BENEFIT			161,050	106,334

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.027	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.030	0.004	0.973	0.997	0.970	0.030	0.962	1.030	1.060
2	0.033	0.004	0.945	0.993	0.938	0.062	0.925	1.061	1.124
3	0.037	0.005	0.913	0.988	0.903	0.096	0.889	1.093	1.191
4	0.041	0.006	0.880	0.983	0.865	0.133	0.855	1.126	1.262
5	0.046	0.007	0.844	0.978	0.825	0.171	0.822	1.159	1.338
6	0.050	0.008	0.805	0.971	0.782	0.212	0.790	1.194	1.419
7	0.055	0.009	0.765	0.964	0.737	0.254	0.760	1.230	1.504
8	0.059	0.010	0.723	0.955	0.691	0.297	0.731	1.267	1.594
9	0.064	0.011	0.680	0.946	0.643	0.339	0.703	1.305	1.689
10	0.069	0.012	0.637	0.936	0.596	0.381	0.676	1.344	1.791
11	0.074	0.013	0.593	0.925	0.548	0.421	0.650	1.384	1.898
12	0.080	0.014	0.549	0.913	0.501	0.459	0.625	1.426	2.012
13	0.086	0.015	0.505	0.901	0.455	0.496	0.601	1.469	2.133
14	0.094	0.017	0.462	0.887	0.410	0.530	0.577	1.513	2.261
15	0.102	0.018	0.419	0.873	0.365	0.561	0.555	1.558	2.397
16	0.111	0.020	0.376	0.857	0.322	0.589	0.534	1.605	2.540
17	0.121	0.023	0.334	0.839	0.280	0.613	0.513	1.653	2.693
18	0.131	0.025	0.294	0.820	0.241	0.632	0.494	1.702	2.854
19	0.141	0.028	0.255	0.799	0.204	0.647	0.475	1.754	3.026
20	0.151	0.032	0.219	0.777	0.170	0.655	0.456	1.806	3.207
21	0.162	0.035	0.186	0.752	0.140	0.658	0.439	1.860	3.400
22	0.173	0.039	0.156	0.725	0.113	0.655	0.422	1.916	3.604
23	0.186	0.044	0.129	0.697	0.090	0.646	0.406	1.974	3.820
24	0.201	0.049	0.105	0.666	0.070	0.631	0.390	2.033	4.049
25	0.218	0.055	0.084	0.633	0.053	0.611	0.375	2.094	4.292
26	0.237	0.061	0.066	0.599	0.039	0.586	0.361	2.157	4.549
27	0.258	0.068	0.050	0.562	0.028	0.556	0.347	2.221	4.822
28	0.282	0.075	0.037	0.524	0.019	0.522	0.333	2.288	5.112
29	0.309	0.084	0.027	0.485	0.013	0.485	0.321	2.357	5.418
30	0.339	0.094	0.018	0.444	0.008	0.446	0.308	2.427	5.743
31	0.371	0.105	0.012	0.402	0.005	0.405	0.296	2.500	6.088
32	0.406	0.116	0.008	0.360	0.003	0.362	0.285	2.575	6.453
33	0.444	0.129	0.005	0.318	0.001	0.320	0.274	2.652	6.841
34	0.475	0.142	0.003	0.277	0.001	0.278	0.264	2.732	7.251
35	0.506	0.156	0.001	0.238	0.000	0.239	0.253	2.814	7.686
36	0.539	0.171	0.001	0.201	0.000	0.201	0.244	2.898	8.147
37	0.575	0.186	0.000	0.167	0.000	0.167	0.234	2.985	8.636
38	0.616	0.203	0.000	0.136	0.000	0.136	0.225	3.075	9.154
39	0.661	0.220	0.000	0.108	0.000	0.108	0.217	3.167	9.704
40	0.713	0.238	0.000	0.084	0.000	0.084	0.208	3.262	10.286
41	0.773	0.257	0.000	0.064	0.000	0.064	0.200	3.360	10.903
42	0.841	0.276	0.000	0.048	0.000	0.048	0.193	3.461	11.557
43	0.918	0.297	0.000	0.035	0.000	0.035	0.185	3.565	12.250
44	1.000	0.317	0.000	0.024	0.000	0.024	0.178	3.671	12.985
45	-	0.339	-	0.017	-	0.017	0.171	3.782	13.765
46	-	0.361	-	0.011	-	0.011	0.165	3.895	14.590
47	-	0.384	-	0.007	-	0.007	0.158	4.012	15.466
48	-	0.405	-	0.004	-	0.004	0.152	4.132	16.394
49	-	0.425	-	0.003	-	0.003	0.146	4.256	17.378
50	-	0.444	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.464	-	0.001	-	0.001	0.135	4.515	19.525
52	-	0.482	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.495	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 67

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	67.00	M		
	CLAIMANT 2 (y)	63.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			13.84	10.36
(12)	APV FOR CLAIMANT 2			35.86	20.75
(13)	APV FOR BOTH CLAIMANTS ALIVE			12.42	9.53
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			24.87	12.06
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			107,051	80,125
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			336,305	203,727
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			17.737	12.744
(23)	APV OF MEDICAL BENEFIT			112,805	81,050

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.007	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.008	0.954	0.993	0.948	0.052	0.962	1.030	1.060
2	0.055	0.009	0.907	0.986	0.894	0.105	0.925	1.061	1.124
3	0.059	0.010	0.857	0.977	0.837	0.159	0.889	1.093	1.191
4	0.064	0.011	0.806	0.968	0.780	0.214	0.855	1.126	1.262
5	0.069	0.012	0.754	0.957	0.722	0.267	0.822	1.159	1.338
6	0.074	0.013	0.703	0.946	0.665	0.319	0.790	1.194	1.419
7	0.080	0.014	0.651	0.934	0.608	0.369	0.760	1.230	1.504
8	0.086	0.015	0.599	0.921	0.552	0.417	0.731	1.267	1.594
9	0.094	0.017	0.547	0.907	0.497	0.461	0.703	1.305	1.689
10	0.102	0.018	0.496	0.892	0.443	0.503	0.676	1.344	1.791
11	0.111	0.020	0.445	0.876	0.390	0.541	0.650	1.384	1.898
12	0.121	0.023	0.396	0.858	0.340	0.575	0.625	1.426	2.012
13	0.131	0.025	0.348	0.839	0.292	0.603	0.601	1.469	2.133
14	0.141	0.028	0.302	0.818	0.247	0.626	0.577	1.513	2.261
15	0.151	0.032	0.260	0.794	0.206	0.641	0.555	1.558	2.397
16	0.162	0.035	0.221	0.769	0.170	0.650	0.534	1.605	2.540
17	0.173	0.039	0.185	0.742	0.137	0.653	0.513	1.653	2.693
18	0.186	0.044	0.153	0.713	0.109	0.648	0.494	1.702	2.854
19	0.201	0.049	0.124	0.681	0.085	0.636	0.475	1.754	3.026
20	0.218	0.055	0.099	0.648	0.064	0.619	0.456	1.806	3.207
21	0.237	0.061	0.078	0.612	0.048	0.595	0.439	1.860	3.400
22	0.258	0.068	0.059	0.575	0.034	0.566	0.422	1.916	3.604
23	0.282	0.075	0.044	0.536	0.024	0.533	0.406	1.974	3.820
24	0.309	0.084	0.032	0.496	0.016	0.496	0.390	2.033	4.049
25	0.339	0.094	0.022	0.454	0.010	0.456	0.375	2.094	4.292
26	0.371	0.105	0.014	0.411	0.006	0.414	0.361	2.157	4.549
27	0.406	0.116	0.009	0.368	0.003	0.371	0.347	2.221	4.822
28	0.444	0.129	0.005	0.326	0.002	0.327	0.333	2.288	5.112
29	0.475	0.142	0.003	0.284	0.001	0.285	0.321	2.357	5.418
30	0.506	0.156	0.002	0.243	0.000	0.244	0.308	2.427	5.743
31	0.539	0.171	0.001	0.205	0.000	0.206	0.296	2.500	6.088
32	0.575	0.186	0.000	0.170	0.000	0.171	0.285	2.575	6.453
33	0.616	0.203	0.000	0.139	0.000	0.139	0.274	2.652	6.841
34	0.661	0.220	0.000	0.111	0.000	0.111	0.264	2.732	7.251
35	0.713	0.238	0.000	0.086	0.000	0.086	0.253	2.814	7.686
36	0.773	0.257	0.000	0.066	0.000	0.066	0.244	2.898	8.147
37	0.841	0.276	0.000	0.049	0.000	0.049	0.234	2.985	8.636
38	0.918	0.297	0.000	0.035	0.000	0.035	0.225	3.075	9.154
39	1.000	0.317	0.000	0.025	0.000	0.025	0.217	3.167	9.704
40	-	0.339	-	0.017	-	0.017	0.208	3.262	10.286
41	-	0.361	-	0.011	-	0.011	0.200	3.360	10.903
42	-	0.384	-	0.007	-	0.007	0.193	3.461	11.557
43	-	0.405	-	0.004	-	0.004	0.185	3.565	12.250
44	-	0.425	-	0.003	-	0.003	0.178	3.671	12.985
45	-	0.444	-	0.002	-	0.002	0.171	3.782	13.765
46	-	0.464	-	0.001	-	0.001	0.165	3.895	14.590
47	-	0.482	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.495	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	1.000	-	0.000	-	0.000	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 72

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	72.00	M		
	CLAIMANT 2 (y)	68.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			10.36	8.24
(12)	APV FOR CLAIMANT 2			27.60	17.45
(13)	APV FOR BOTH CLAIMANTS ALIVE			9.19	7.48
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			19.57	10.72
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			80,072	63,682
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			257,933	169,690
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			12.549	9.704
(23)	APV OF MEDICAL BENEFIT			79,809	61,718

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.013	0.931	0.988	0.920	0.079	0.962	1.030	1.060
2	0.080	0.014	0.863	0.976	0.842	0.155	0.925	1.061	1.124
3	0.086	0.015	0.794	0.962	0.764	0.228	0.889	1.093	1.191
4	0.094	0.017	0.726	0.948	0.688	0.298	0.855	1.126	1.262
5	0.102	0.018	0.658	0.932	0.613	0.364	0.822	1.159	1.338
6	0.111	0.020	0.590	0.915	0.540	0.425	0.790	1.194	1.419
7	0.121	0.023	0.525	0.896	0.470	0.480	0.760	1.230	1.504
8	0.131	0.025	0.461	0.876	0.404	0.529	0.731	1.267	1.594
9	0.141	0.028	0.401	0.854	0.342	0.570	0.703	1.305	1.689
10	0.151	0.032	0.344	0.830	0.286	0.603	0.676	1.344	1.791
11	0.162	0.035	0.292	0.803	0.235	0.626	0.650	1.384	1.898
12	0.173	0.039	0.245	0.775	0.190	0.640	0.625	1.426	2.012
13	0.186	0.044	0.203	0.744	0.151	0.645	0.601	1.469	2.133
14	0.201	0.049	0.165	0.712	0.117	0.642	0.577	1.513	2.261
15	0.218	0.055	0.132	0.677	0.089	0.630	0.555	1.558	2.397
16	0.237	0.061	0.103	0.640	0.066	0.611	0.534	1.605	2.540
17	0.258	0.068	0.079	0.601	0.047	0.585	0.513	1.653	2.693
18	0.282	0.075	0.058	0.560	0.033	0.553	0.494	1.702	2.854
19	0.309	0.084	0.042	0.518	0.022	0.516	0.475	1.754	3.026
20	0.339	0.094	0.029	0.474	0.014	0.476	0.456	1.806	3.207
21	0.371	0.105	0.019	0.430	0.008	0.432	0.439	1.860	3.400
22	0.406	0.116	0.012	0.385	0.005	0.388	0.422	1.916	3.604
23	0.444	0.129	0.007	0.340	0.002	0.342	0.406	1.974	3.820
24	0.475	0.142	0.004	0.296	0.001	0.298	0.390	2.033	4.049
25	0.506	0.156	0.002	0.254	0.001	0.255	0.375	2.094	4.292
26	0.539	0.171	0.001	0.215	0.000	0.215	0.361	2.157	4.549
27	0.575	0.186	0.000	0.178	0.000	0.178	0.347	2.221	4.822
28	0.616	0.203	0.000	0.145	0.000	0.145	0.333	2.288	5.112
29	0.661	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.713	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.773	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.841	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.918	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	1.000	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	-	0.339	-	0.018	-	0.018	0.253	2.814	7.686
36	-	0.361	-	0.012	-	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR ACTIVE MINER CLAIMS AT ENTITLEMENT AGE 80

		Age	Sex	NOMINAL	DISCOUNTED
	CLAIMANT 1 (x)	80.00	M		
	CLAIMANT 2 (y)	76.00	F		
	PTD/DEPENDENT BENEFIT PAYMENTS				
(11)	APV FOR CLAIMANT 1			6.31	5.44
(12)	APV FOR CLAIMANT 2			17.26	12.43
(13)	APV FOR BOTH CLAIMANTS ALIVE			5.49	4.83
(14)	APV FOR ONLY 1 CLAIMANT ALIVE			12.58	8.21
(15)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE			11,597	11,597
(16)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE			7,732	7,732
(17)	APV OF INDEMNITY BENEFITS PAID TO IW ONLY			48,769	42,100
(18)	APV OF INDEMNITY BENEFITS PAID TO IW + DEP.			160,968	119,514
	MEDICAL PAYMENTS				
(19)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY			644.37	644.37
(20)	CURRENT MINER INDEMNITY BENEFIT - YEARLY			7,732.42	7,732.42
(21)	ESTIMATED ANNUAL MEDICAL PAYMENT			6,360.00	6,360.00
(22)	APV FOR $1 OF MEDICAL BENEFIT			7.108	6.053
(23)	APV OF MEDICAL BENEFIT			45,206	38,495

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.131	0.025	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.141	0.028	0.869	0.975	0.847	0.150	0.962	1.030	1.060
2	0.151	0.032	0.747	0.947	0.707	0.279	0.925	1.061	1.124
3	0.162	0.035	0.634	0.917	0.581	0.388	0.889	1.093	1.191
4	0.173	0.039	0.531	0.885	0.470	0.476	0.855	1.126	1.262
5	0.186	0.044	0.439	0.850	0.373	0.543	0.822	1.159	1.338
6	0.201	0.049	0.357	0.812	0.290	0.589	0.790	1.194	1.419
7	0.218	0.055	0.285	0.772	0.220	0.617	0.760	1.230	1.504
8	0.237	0.061	0.223	0.730	0.163	0.627	0.731	1.267	1.594
9	0.258	0.068	0.170	0.686	0.117	0.622	0.703	1.305	1.689
10	0.282	0.075	0.126	0.639	0.081	0.604	0.676	1.344	1.791
11	0.309	0.084	0.091	0.591	0.054	0.574	0.650	1.384	1.898
12	0.339	0.094	0.063	0.541	0.034	0.536	0.625	1.426	2.012
13	0.371	0.105	0.041	0.491	0.020	0.491	0.601	1.469	2.133
14	0.406	0.116	0.026	0.439	0.011	0.442	0.577	1.513	2.261
15	0.444	0.129	0.015	0.388	0.006	0.392	0.555	1.558	2.397
16	0.475	0.142	0.009	0.338	0.003	0.341	0.534	1.605	2.540
17	0.506	0.156	0.005	0.290	0.001	0.292	0.513	1.653	2.693
18	0.539	0.171	0.002	0.245	0.001	0.246	0.494	1.702	2.854
19	0.575	0.186	0.001	0.203	0.000	0.204	0.475	1.754	3.026
20	0.616	0.203	0.000	0.165	0.000	0.166	0.456	1.806	3.207
21	0.661	0.220	0.000	0.132	0.000	0.132	0.439	1.860	3.400
22	0.713	0.238	0.000	0.103	0.000	0.103	0.422	1.916	3.604
23	0.773	0.257	0.000	0.078	0.000	0.078	0.406	1.974	3.820
24	0.841	0.276	0.000	0.058	0.000	0.058	0.390	2.033	4.049
25	0.918	0.297	0.000	0.042	0.000	0.042	0.375	2.094	4.292
26	1.000	0.317	0.000	0.030	0.000	0.030	0.361	2.157	4.549
27	-	0.339	-	0.020	-	0.020	0.347	2.221	4.822
28	-	0.361	-	0.013	-	0.013	0.333	2.288	5.112
29	-	0.384	-	0.009	-	0.009	0.321	2.357	5.418
30	-	0.405	-	0.005	-	0.005	0.308	2.427	5.743
31	-	0.425	-	0.003	-	0.003	0.296	2.500	6.088
32	-	0.444	-	0.002	-	0.002	0.285	2.575	6.453
33	-	0.464	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.482	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.495	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	1.000	-	0.000	-	0.000	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(12) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(13) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(14) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(15) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3)
(16) = 12 * SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(17) = (11) * (16)
(18) = (13) * (15) + (14) * (16)
(19) = (20) / 12
(20) = (16)
(21) FROM SECTION 8A, EXHIBIT 6, SHEET 2
(22) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(23) = (21) * (22)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF WEIGHTED NOMINAL BENEFITS PER CLAIM FOR ACTIVE MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 42			NOMINAL ESTIMATES AT ENTITLEMENT AGE 47			NOMINAL ESTIMATES AT ENTITLEMENT AGE 52			NOMINAL ESTIMATES AT ENTITLEMENT AGE 57			NOMINAL ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	1,017,154	2,240,963	88,205	930,323	2,112,949	125,704	824,838	1,947,102	172,023	702,717	1,735,758	236,864	567,172	1,474,461	319,678
20 - 24	910,306	1,787,974	68,595	832,597	1,685,837	102,447	738,193	1,553,515	144,419	628,900	1,384,891	203,082	507,593	1,176,413	277,914
25 - 29	793,954	1,350,908	46,221	726,177	1,273,738	76,132	643,840	1,173,761	113,420	548,516	1,046,358	165,419	442,714	888,842	231,628
30 - 34	693,530	1,022,239	27,007	634,326	963,844	53,514	562,403	888,191	86,754	479,137	791,784	132,994	386,717	672,591	191,756
35 - 39	605,996	773,773	11,781	554,264	729,572	35,277	491,419	672,307	64,913	418,662	599,333	106,041	337,907	509,111	158,205
40 - 44	545,465	620,921	-	486,441	554,675	17,643	431,286	511,138	44,338	367,432	455,657	81,274	296,559	387,064	128,004
45 - 49	545,465	620,921	-	442,406	449,733	-	383,470	393,695	20,191	326,695	350,962	54,309	263,680	298,130	97,304
50 - 54	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	294,277	273,861	26,637	237,514	232,635	67,161
55 - 59	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	220,015	186,678	32,704
60 - 64	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
65 - 69	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
70 - 74	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
75 - 79	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
80 - 84	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-
85 - 89	545,465	620,921	-	442,406	449,733	-	352,072	322,245	-	276,060	229,036	-	212,909	161,050	-

CURRENT AGE GROUP OF ACTIVE MINERS	NOMINAL ESTIMATES AT ENTITLEMENT AGE 67			NOMINAL ESTIMATES AT ENTITLEMENT AGE 72			NOMINAL ESTIMATES AT ENTITLEMENT AGE 80			NOMINAL ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	422,382	1,166,324	423,147	279,786	833,033	535,957	100,785	346,820	632,091	571,737	1,460,852	325,981
20 - 24	378,013	930,563	371,287	250,395	664,643	473,045	90,198	276,714	560,456	511,679	1,165,555	283,552
25 - 29	329,697	703,089	314,084	218,391	502,173	403,884	78,669	209,072	481,932	446,278	880,638	236,542
30 - 34	287,994	532,031	264,780	190,767	379,997	344,254	68,718	158,206	414,206	389,830	666,383	196,043
35 - 39	251,645	402,715	222,896	166,690	287,634	293,250	60,045	119,752	355,944	340,627	504,412	161,947
40 - 44	220,852	306,174	185,803	146,292	218,681	248,605	52,698	91,044	305,450	299,199	384,097	131,347
45 - 49	196,367	235,825	150,255	130,073	168,435	207,704	46,855	70,125	261,020	258,422	289,796	105,097
50 - 54	176,881	184,018	116,792	117,166	131,433	170,538	42,206	54,720	222,006	225,853	221,452	79,439
55 - 59	163,848	147,665	81,466	108,533	105,468	134,129	39,096	43,910	186,765	201,502	173,694	52,081
60 - 64	158,557	127,393	50,176	105,028	90,989	104,225	37,833	37,882	160,478	178,724	139,289	32,103
65 - 69	162,072	112,805	-	107,356	80,569	60,770	38,672	33,544	127,788	143,475	101,680	20,417
70 - 74	162,072	112,805	-	122,759	79,809	-	44,220	33,227	91,085	122,759	79,809	-
75 - 79	162,072	112,805	-	122,759	79,809	-	62,736	39,680	30,974	62,736	39,680	30,974
80 - 84	162,072	112,805	-	122,759	79,809	-	75,697	45,206	-	75,697	45,206	-
85 - 89	162,072	112,805	-	122,759	79,809	-	75,697	45,206	-	75,697	45,206	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8A, EXHIBIT 5, SHEET 2A, COL. (16), (17), (18)
(5)-(7) SECTION 8A, EXHIBIT 5, SHEET 2B, COL. (16), (17), (18)
(8)-(10) SECTION 8A, EXHIBIT 5, SHEET 2C, COL. (16), (17), (18)
(11)-(13) SECTION 8A, EXHIBIT 5, SHEET 2D, COL. (16), (17), (18)
(14)-(16) SECTION 8A, EXHIBIT 5, SHEET 2E, COL. (16), (17), (18)
(17)-(19) SECTION 8A, EXHIBIT 5, SHEET 2F, COL. (16), (17), (18)
(20) - (22) SECTION 8A, EXHIBIT 5, SHEET 2G, COL. (16), (17), (18)
(23) - (25) SECTION 8A, EXHIBIT 5, SHEET 2H, COL. (16), (17), (18)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25) USING WEIGHTS FROM SECTION 8A, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

CALCULATION OF WEIGHTED DISCOUNTED BENEFITS PER CLAIM FOR ACTIVE MINERS

CURRENT AGE GROUP OF ACTIVE MINERS	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 42			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 47			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 52			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 57			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 62		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
14 - 19	183,973	386,974	12,734	151,206	339,065	16,374	120,443	288,056	20,377	91,864	234,609	25,510	66,038	180,265	31,200
20 - 24	192,614	361,195	11,585	158,308	316,478	15,612	126,100	268,867	20,013	96,179	218,980	25,587	69,140	168,256	31,732
25 - 29	204,391	332,027	9,498	167,988	290,921	14,115	133,810	247,154	19,123	102,060	201,296	25,357	73,367	154,669	32,177
30 - 34	217,219	305,679	6,752	178,531	267,835	12,071	142,209	227,542	17,796	108,465	185,323	24,803	77,972	142,395	32,409
35 - 39	230,924	281,510	3,583	189,795	246,658	9,681	151,181	209,551	16,200	115,309	170,670	24,061	82,891	131,137	32,531
40 - 44	243,164	264,271	-	202,659	228,157	5,891	161,427	193,832	13,463	123,124	157,868	22,437	88,509	121,300	32,024
45 - 49	243,164	264,271	-	215,621	216,413	-	174,626	181,642	7,459	133,191	147,939	18,241	95,746	113,671	29,617
50 - 54	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	145,967	140,449	10,885	104,930	107,916	24,871
55 - 59	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	118,258	105,359	14,735
60 - 64	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
65 - 69	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
70 - 74	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
75 - 79	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
80 - 84	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-
85 - 89	243,164	264,271	-	215,621	216,413	-	187,561	173,930	-	160,190	137,412	-	133,877	106,334	-

CURRENT AGE GROUP OF ACTIVE MINERS	DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 67			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 72			DISCOUNTED ESTIMATES AT ENTITLEMENT AGE 80			DISCOUNTED ESTIMATES WEIGHTED BENEFITS		
	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM	MINER INDEMNITY PER CLAIM	MINER MEDICAL PER CLAIM	SURVIVOR INDEMNITY PER CLAIM
	(17)	(18)	(19)	(20)	(21)	(22)	(23)	(24)	(25)	(26)	(27)	(28)
14 - 19	43,547	127,540	37,267	25,410	80,586	42,391	7,385	26,995	41,610	71,080	186,229	30,792
20 - 24	45,592	119,044	38,254	26,603	75,218	43,770	7,731	25,196	43,161	74,418	173,823	31,275
25 - 29	48,380	109,430	39,371	28,230	69,143	45,467	8,204	23,162	45,154	78,969	159,786	31,646
30 - 34	51,417	100,747	40,382	30,002	63,657	47,151	8,719	21,324	47,217	83,925	147,106	31,790
35 - 39	54,661	92,781	41,359	31,895	58,623	48,867	9,269	19,638	49,366	89,220	135,475	31,814
40 - 44	58,365	85,822	41,946	34,056	54,226	50,403	9,897	18,165	51,541	95,204	125,385	31,197
45 - 49	63,137	80,424	41,270	36,841	50,816	51,234	10,707	17,022	53,587	97,563	113,063	29,970
50 - 54	69,194	76,352	39,028	40,375	48,243	51,180	11,734	16,160	55,452	101,305	103,211	27,055
55 - 59	77,982	74,543	33,122	45,503	47,100	48,974	13,224	15,778	56,756	106,564	95,945	20,837
60 - 64	88,282	75,233	23,865	51,513	47,536	44,519	14,971	15,924	57,051	106,561	87,260	14,398
65 - 69	109,789	81,050	-	64,063	51,211	31,582	18,618	17,155	55,272	94,554	70,996	10,325
70 - 74	109,789	81,050	-	89,124	61,718	-	25,901	20,675	47,932	89,124	61,718	-
75 - 79	109,789	81,050	-	89,124	61,718	-	46,496	31,241	20,624	46,496	31,241	20,624
80 - 84	109,789	81,050	-	89,124	61,718	-	60,680	38,495	-	60,680	38,495	-
85 - 89	109,789	81,050	-	89,124	61,718	-	60,680	38,495	-	60,680	38,495	-

(1) OHIO COAL SURVEY DATA
(2)-(4) SECTION 8A, EXHIBIT 5, SHEET 2A, COL. (19), (20), (21)
(5)-(7) SECTION 8A, EXHIBIT 5, SHEET 2B, COL. (19), (20), (21)
(8)-(10) SECTION 8A, EXHIBIT 5, SHEET 2C, COL. (19), (20), (21)
(11)-(13) SECTION 8A, EXHIBIT 5, SHEET 2D, COL. (19), (20), (21)
(14)-(16) SECTION 8A, EXHIBIT 5, SHEET 2E, COL. (19), (20), (21)
(17)-(19) SECTION 8A, EXHIBIT 5, SHEET 2F, COL. (19), (20), (21)
(20) - (22) SECTION 8A, EXHIBIT 5, SHEET 2G, COL. (19), (20), (21)
(23) - (25) SECTION 8A, EXHIBIT 5, SHEET 2H, COL. (19), (20), (21)
(26) - (28) WEIGHTED AVERAGE OF MINER INDEMNITY VALUES IN (2) THROUGH (25) USING WEIGHTS FROM SECTION 8A, EXHIBIT 5, SHEET 5

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

WEIGHTS FOR DEFERRED ANNUITY VALUES

		Active Miners	16-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-85
Age @ Entitlement	42	Weights for deferred annuity values - current age to age @ entitlement	1.9%	1.9%	1.9%	1.9%	1.9%	1.9%							
	47		3.2%	3.2%	3.2%	3.2%	3.2%	3.2%	2.0%						
	52		7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	7.0%	4.6%					
	57		20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.3%	18.6%				
	62		37.6%	37.6%	37.6%	37.6%	37.6%	37.6%	39.2%	41.2%	44.3%	52.0%			
	67		21.1%	21.1%	21.1%	21.1%	21.1%	21.1%	21.9%	23.3%	25.7%	34.5%	69.2%		
	72		7.4%	7.4%	7.4%	7.4%	7.4%	7.4%	8.0%	8.4%	9.0%	12.1%	28.2%	100.0%	
	80		1.9%	1.9%	1.9%	1.9%	1.9%	1.9%	2.0%	2.2%	2.5%	1.3%	2.6%	0.0%	
			100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	

The Weights for each age grouping represent the conditional probability of a Miner claim filing being entitled

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
TABLE OF MONTHLY BLACK LUNG BENEFIT RATES

SECTION 8A
EXHIBIT 6
SHEET 1

EFFECTIVE DATE	PRIMARY BENEFICIARY	PRIMARY BENEFICIARY & 1 DEPENDENT	PRIMARY BENEFICIARY & 2 DEPENDENTS	PRIMARY BENEFICIARY & 3 OR MORE DEPENDENTS	ANNUAL INCREASE
(1)	(2)	(3)	(4)	(5)	(6)
10/01/81 - 09/30/82	293.20	439.80	513.10	586.40	
10/01/82 - 12/31/83	304.90	457.40	533.60	609.80	4.0%
01/01/84 - 12/31/84	317.10	475.60	554.90	634.20	4.0%
01/01/85 - 12/31/86	328.20	492.30	574.30	656.40	3.5%
01/01/87 - 12/31/87	338.00	507.00	591.50	676.00	3.0%
01/01/88 - 12/31/88	344.80	517.20	603.40	689.50	2.0%
01/01/89 - 12/31/89	358.90	538.40	628.10	717.80	4.1%
01/01/90 - 12/31/90	371.80	557.70	650.70	743.60	3.6%
01/01/91 - 12/31/91	387.10	580.60	677.40	774.10	4.1%
01/01/92 - 12/31/92	403.30	605.00	705.80	806.60	4.2%
01/01/93 - 12/31/93	418.20	627.30	731.90	836.40	3.7%
01/01/94 - 12/31/94	427.40	641.10	748.00	854.80	2.2%
01/01/95 - 12/31/95	427.40	641.10	748.00	854.80	0.0%
01/01/96 - 12/31/96	435.10	652.70	761.50	870.20	1.8%
01/01/97 - 12/31/97	445.10	667.70	779.00	890.20	2.3%
01/01/98 - 12/31/98	455.40	683.10	796.90	910.70	2.3%
01/01/99 - 12/31/99	469.50	704.30	821.60	939.00	3.1%
01/01/00 - 12/31/00	487.40	731.00	852.80	974.70	3.8%
01/01/01 - 12/31/01	500.50	750.80	875.90	1,001.00	2.7%
01/01/02 - 12/31/02	518.00	777.00	907.00	1,037.00	3.5%
01/01/03 - 12/31/03	534.60	801.90	935.50	1,069.20	3.2%
01/01/04 - 12/31/04	549.00	823.50	960.80	1,098.00	2.7%
01/01/05 - 12/31/05	562.80	844.10	984.80	1,125.00	2.5%
01/01/06 - 12/31/06	574.60	861.80	1,005.50	1,149.10	2.1%
01/01/07 - 12/31/07	584.00	876.00	1,022.00	1,168.00	1.6%
01/01/08 - 12/31/08	599.00	898.40	1,048.10	1,197.90	2.6%
01/01/09 - 12/31/09	616.30	924.50	1,078.50	1,232.60	2.9%
01/01/10 - 12/31/10	625.60	938.30	1,094.70	1,251.10	1.5%
				ALL YEAR AVERAGE	2.9%
				3 YEAR AVERAGE	2.3%
				5 YEAR AVERAGE	2.1%
				10 YEAR AVERAGE	2.5%
				SELECTED ANNUAL INCREASE	**3.00%**

(1) EFFECTIVE DATE
(2) - (5) FROM THE DEPARTMENT OF LABOR WEBSITE:
http://www.dol.gov/owcp/dcmwc/benefits_part_c.htm
(6) ANNUAL GROWTH IN % IN COL (2)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 6
SHEET 2

AVERAGE ANNUAL MEDICAL COSTS PER ENTITLEMENT

CALENDAR YEAR	MEDICAL PAYMENTS	ACTIVE LIVING MINER ENTITLEMENTS	AVERAGE ANNUAL MEDICAL COST PER ENTITLEMENT	6% MEDICAL TREND	TRENDED AVERAGE ANNUAL MEDICAL COST PER ENTITLEMENT
(1)	(2)	(3)	(4)	(5)	(6)
2003	164,347				
2004	143,949				
2005	430,209				
2006	338,045				
2007	293,090				
2008	177,178				
2009	250,316	35	7,152	1.191	8,518
2010	145,236	39	3,724	1.124	4,184
2011	220,462	41	5,377	1.060	5,700
TOTAL 2009-2011	**616,014**	**115**	**5,357**		
		3 YR AVERAGE	5,418		6,134
	SELECTED AVG MEDICAL		**6,000**		

(1) CALENDAR YEAR
(2) PROVIDED BY BWC
(3) PROVIDED BY BWC
(4) = (2) / (3)
(5) 6% ANNUAL TREND TO CALENDAR YEAR 2013
(6) = (4) * (5)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	1		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		10/1/2000	
(15)	**DATE OF FILING**		10/16/2000	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		69	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	12.33	9.47
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.33	9.47
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,146.08	62.23
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	95,359	73,189
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	15.437	11.437
(29)	APV OF MEDICAL BENEFIT	98,179	72,737

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.059	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.064	-	0.889	1.000	0.889	0.111	0.925	1.061	1.124
3	0.069	-	0.832	1.000	0.832	0.168	0.889	1.093	1.191
4	0.074	-	0.775	1.000	0.775	0.225	0.855	1.126	1.262
5	0.080	-	0.718	1.000	0.718	0.282	0.822	1.159	1.338
6	0.086	-	0.661	1.000	0.661	0.339	0.790	1.194	1.419
7	0.094	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.102	-	0.547	1.000	0.547	0.453	0.731	1.267	1.594
9	0.111	-	0.491	1.000	0.491	0.509	0.703	1.305	1.689
10	0.121	-	0.437	1.000	0.437	0.563	0.676	1.344	1.791
11	0.131	-	0.384	1.000	0.384	0.616	0.650	1.384	1.898
12	0.141	-	0.334	1.000	0.334	0.666	0.625	1.426	2.012
13	0.151	-	0.287	1.000	0.287	0.713	0.601	1.469	2.133
14	0.162	-	0.243	1.000	0.243	0.757	0.577	1.513	2.261
15	0.173	-	0.204	1.000	0.204	0.796	0.555	1.558	2.397
16	0.186	-	0.169	1.000	0.169	0.831	0.534	1.605	2.540
17	0.201	-	0.137	1.000	0.137	0.863	0.513	1.653	2.693
18	0.218	-	0.110	1.000	0.110	0.890	0.494	1.702	2.854
19	0.237	-	0.086	1.000	0.086	0.914	0.475	1.754	3.026
20	0.258	-	0.065	1.000	0.065	0.935	0.456	1.806	3.207
21	0.282	-	0.048	1.000	0.048	0.952	0.439	1.860	3.400
22	0.309	-	0.035	1.000	0.035	0.965	0.422	1.916	3.604
23	0.339	-	0.024	1.000	0.024	0.976	0.406	1.974	3.820
24	0.371	-	0.016	1.000	0.016	0.984	0.390	2.033	4.049
25	0.406	-	0.010	1.000	0.010	0.990	0.375	2.094	4.292
26	0.444	-	0.006	1.000	0.006	0.994	0.361	2.157	4.549
27	0.475	-	0.003	1.000	0.003	0.997	0.347	2.221	4.822
28	0.506	-	0.002	1.000	0.002	0.998	0.333	2.288	5.112
29	0.539	-	0.001	1.000	0.001	0.999	0.321	2.357	5.418
30	0.575	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.616	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.661	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.713	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.773	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.841	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.918	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
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(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	2		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		1/9/2004	
(15)	**DATE OF FILING**		1/15/2004	
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	78	M	
(17)	**CLAIMANT 2 (y)**	0		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.14	6.05
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.14	6.05
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.27	65.64
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	55,229	46,797
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.181	6.818
(29)	APV OF MEDICAL BENEFIT	52,031	43,361

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.111	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.121	-	0.889	1.000	0.889	0.111	0.962	1.030	1.060
2	0.131	-	0.781	1.000	0.781	0.219	0.925	1.061	1.124
3	0.141	-	0.679	1.000	0.679	0.321	0.889	1.093	1.191
4	0.151	-	0.583	1.000	0.583	0.417	0.855	1.126	1.262
5	0.162	-	0.495	1.000	0.495	0.505	0.822	1.159	1.338
6	0.173	-	0.415	1.000	0.415	0.585	0.790	1.194	1.419
7	0.186	-	0.343	1.000	0.343	0.657	0.760	1.230	1.504
8	0.201	-	0.279	1.000	0.279	0.721	0.731	1.267	1.594
9	0.218	-	0.223	1.000	0.223	0.777	0.703	1.305	1.689
10	0.237	-	0.174	1.000	0.174	0.826	0.676	1.344	1.791
11	0.258	-	0.133	1.000	0.133	0.867	0.650	1.384	1.898
12	0.282	-	0.099	1.000	0.099	0.901	0.625	1.426	2.012
13	0.309	-	0.071	1.000	0.071	0.929	0.601	1.469	2.133
14	0.339	-	0.049	1.000	0.049	0.951	0.577	1.513	2.261
15	0.371	-	0.032	1.000	0.032	0.968	0.555	1.558	2.397
16	0.406	-	0.020	1.000	0.020	0.980	0.534	1.605	2.540
17	0.444	-	0.012	1.000	0.012	0.988	0.513	1.653	2.693
18	0.475	-	0.007	1.000	0.007	0.993	0.494	1.702	2.854
19	0.506	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.539	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.575	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.616	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.661	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.713	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.773	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.841	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.918	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	1.000	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	3		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		1/31/2008	
(15)	**DATE OF FILING**		2/4/2008	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		66	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	14.68	10.84
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	14.68	10.84
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,143.73	60.85
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	113,478	83,836
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	19.031	13.457
(29)	APV OF MEDICAL BENEFIT	121,034	85,585

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.041	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.046	-	0.959	1.000	0.959	0.041	0.962	1.030	1.060
2	0.050	-	0.915	1.000	0.915	0.085	0.925	1.061	1.124
3	0.055	-	0.869	1.000	0.869	0.131	0.889	1.093	1.191
4	0.059	-	0.822	1.000	0.822	0.178	0.855	1.126	1.262
5	0.064	-	0.773	1.000	0.773	0.227	0.822	1.159	1.338
6	0.069	-	0.723	1.000	0.723	0.277	0.790	1.194	1.419
7	0.074	-	0.674	1.000	0.674	0.326	0.760	1.230	1.504
8	0.080	-	0.624	1.000	0.624	0.376	0.731	1.267	1.594
9	0.086	-	0.574	1.000	0.574	0.426	0.703	1.305	1.689
10	0.094	-	0.525	1.000	0.525	0.475	0.676	1.344	1.791
11	0.102	-	0.476	1.000	0.476	0.524	0.650	1.384	1.898
12	0.111	-	0.427	1.000	0.427	0.573	0.625	1.426	2.012
13	0.121	-	0.380	1.000	0.380	0.620	0.601	1.469	2.133
14	0.131	-	0.334	1.000	0.334	0.666	0.577	1.513	2.261
15	0.141	-	0.290	1.000	0.290	0.710	0.555	1.558	2.397
16	0.151	-	0.249	1.000	0.249	0.751	0.534	1.605	2.540
17	0.162	-	0.212	1.000	0.212	0.788	0.513	1.653	2.693
18	0.173	-	0.177	1.000	0.177	0.823	0.494	1.702	2.854
19	0.186	-	0.147	1.000	0.147	0.853	0.475	1.754	3.026
20	0.201	-	0.119	1.000	0.119	0.881	0.456	1.806	3.207
21	0.218	-	0.095	1.000	0.095	0.905	0.439	1.860	3.400
22	0.237	-	0.074	1.000	0.074	0.926	0.422	1.916	3.604
23	0.258	-	0.057	1.000	0.057	0.943	0.406	1.974	3.820
24	0.282	-	0.042	1.000	0.042	0.958	0.390	2.033	4.049
25	0.309	-	0.030	1.000	0.030	0.970	0.375	2.094	4.292
26	0.339	-	0.021	1.000	0.021	0.979	0.361	2.157	4.549
27	0.371	-	0.014	1.000	0.014	0.986	0.347	2.221	4.822
28	0.406	-	0.009	1.000	0.009	0.991	0.333	2.288	5.112
29	0.444	-	0.005	1.000	0.005	0.995	0.321	2.357	5.418
30	0.475	-	0.003	1.000	0.003	0.997	0.308	2.427	5.743
31	0.506	-	0.002	1.000	0.002	0.998	0.296	2.500	6.088
32	0.539	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.575	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.616	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.661	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.713	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.773	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.841	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.918	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	1.000	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	4		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/4/2008	
(15)	**DATE OF FILING**		11/10/2008	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		66	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
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(29)	APV OF MEDICAL BENEFIT	121,034	85,585

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.041	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.046	-	0.959	1.000	0.959	0.041	0.962	1.030	1.060
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14	0.131	-	0.334	1.000	0.334	0.666	0.577	1.513	2.261
15	0.141	-	0.290	1.000	0.290	0.710	0.555	1.558	2.397
16	0.151	-	0.249	1.000	0.249	0.751	0.534	1.605	2.540
17	0.162	-	0.212	1.000	0.212	0.788	0.513	1.653	2.693
18	0.173	-	0.177	1.000	0.177	0.823	0.494	1.702	2.854
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23	0.258	-	0.057	1.000	0.057	0.943	0.406	1.974	3.820
24	0.282	-	0.042	1.000	0.042	0.958	0.390	2.033	4.049
25	0.309	-	0.030	1.000	0.030	0.970	0.375	2.094	4.292
26	0.339	-	0.021	1.000	0.021	0.979	0.361	2.157	4.549
27	0.371	-	0.014	1.000	0.014	0.986	0.347	2.221	4.822
28	0.406	-	0.009	1.000	0.009	0.991	0.333	2.288	5.112
29	0.444	-	0.005	1.000	0.005	0.995	0.321	2.357	5.418
30	0.475	-	0.003	1.000	0.003	0.997	0.308	2.427	5.743
31	0.506	-	0.002	1.000	0.002	0.998	0.296	2.500	6.088
32	0.539	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.575	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.616	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.661	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.713	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
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38	0.841	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.918	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	1.000	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
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94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(23) N/A
(24) = (20) * (22) + (21) * (23)
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(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	5		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		12/17/2010	
(15)	**DATE OF FILING**		12/23/2010	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		60	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	20.78	14.10
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	20.78	14.10
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,137.63	57.59
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	160,655	109,010
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	29.191	18.573
(29)	APV OF MEDICAL BENEFIT	185,657	118,126

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.022	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.024	-	0.978	1.000	0.978	0.022	0.962	1.030	1.060
2	0.027	-	0.954	1.000	0.954	0.046	0.925	1.061	1.124
3	0.030	-	0.929	1.000	0.929	0.071	0.889	1.093	1.191
4	0.033	-	0.901	1.000	0.901	0.099	0.855	1.126	1.262
5	0.037	-	0.872	1.000	0.872	0.128	0.822	1.159	1.338
6	0.041	-	0.840	1.000	0.840	0.160	0.790	1.194	1.419
7	0.046	-	0.805	1.000	0.805	0.195	0.760	1.230	1.504
8	0.050	-	0.769	1.000	0.769	0.231	0.731	1.267	1.594
9	0.055	-	0.730	1.000	0.730	0.270	0.703	1.305	1.689
10	0.059	-	0.690	1.000	0.690	0.310	0.676	1.344	1.791
11	0.064	-	0.649	1.000	0.649	0.351	0.650	1.384	1.898
12	0.069	-	0.608	1.000	0.608	0.392	0.625	1.426	2.012
13	0.074	-	0.566	1.000	0.566	0.434	0.601	1.469	2.133
14	0.080	-	0.524	1.000	0.524	0.476	0.577	1.513	2.261
15	0.086	-	0.482	1.000	0.482	0.518	0.555	1.558	2.397
16	0.094	-	0.441	1.000	0.441	0.559	0.534	1.605	2.540
17	0.102	-	0.399	1.000	0.399	0.601	0.513	1.653	2.693
18	0.111	-	0.359	1.000	0.359	0.641	0.494	1.702	2.854
19	0.121	-	0.319	1.000	0.319	0.681	0.475	1.754	3.026
20	0.131	-	0.280	1.000	0.280	0.720	0.456	1.806	3.207
21	0.141	-	0.244	1.000	0.244	0.756	0.439	1.860	3.400
22	0.151	-	0.209	1.000	0.209	0.791	0.422	1.916	3.604
23	0.162	-	0.178	1.000	0.178	0.822	0.406	1.974	3.820
24	0.173	-	0.149	1.000	0.149	0.851	0.390	2.033	4.049
25	0.186	-	0.123	1.000	0.123	0.877	0.375	2.094	4.292
26	0.201	-	0.100	1.000	0.100	0.900	0.361	2.157	4.549
27	0.218	-	0.080	1.000	0.080	0.920	0.347	2.221	4.822
28	0.237	-	0.063	1.000	0.063	0.937	0.333	2.288	5.112
29	0.258	-	0.048	1.000	0.048	0.952	0.321	2.357	5.418
30	0.282	-	0.035	1.000	0.035	0.965	0.308	2.427	5.743
31	0.309	-	0.025	1.000	0.025	0.975	0.296	2.500	6.088
32	0.339	-	0.018	1.000	0.018	0.982	0.285	2.575	6.453
33	0.371	-	0.012	1.000	0.012	0.988	0.274	2.652	6.841
34	0.406	-	0.007	1.000	0.007	0.993	0.264	2.732	7.251
35	0.444	-	0.004	1.000	0.004	0.996	0.253	2.814	7.686
36	0.475	-	0.002	1.000	0.002	0.998	0.244	2.898	8.147
37	0.506	-	0.001	1.000	0.001	0.999	0.234	2.985	8.636
38	0.539	-	0.001	1.000	0.001	0.999	0.225	3.075	9.154
39	0.575	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.616	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.661	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.713	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.773	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.841	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.918	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	1.000	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	6		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		9/1/1997	
(15)	**DATE OF FILING**		10/28/1997	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		69	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	12.33	9.47
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.33	9.47
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,146.08	62.23
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	95,359	73,189
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	15.437	11.437
(29)	APV OF MEDICAL BENEFIT	98,179	72,737

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.059	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.064	-	0.889	1.000	0.889	0.111	0.925	1.061	1.124
3	0.069	-	0.832	1.000	0.832	0.168	0.889	1.093	1.191
4	0.074	-	0.775	1.000	0.775	0.225	0.855	1.126	1.262
5	0.080	-	0.718	1.000	0.718	0.282	0.822	1.159	1.338
6	0.086	-	0.661	1.000	0.661	0.339	0.790	1.194	1.419
7	0.094	-	0.604	1.000	0.604	0.396	0.760	1.230	1.504
8	0.102	-	0.547	1.000	0.547	0.453	0.731	1.267	1.594
9	0.111	-	0.491	1.000	0.491	0.509	0.703	1.305	1.689
10	0.121	-	0.437	1.000	0.437	0.563	0.676	1.344	1.791
11	0.131	-	0.384	1.000	0.384	0.616	0.650	1.384	1.898
12	0.141	-	0.334	1.000	0.334	0.666	0.625	1.426	2.012
13	0.151	-	0.287	1.000	0.287	0.713	0.601	1.469	2.133
14	0.162	-	0.243	1.000	0.243	0.757	0.577	1.513	2.261
15	0.173	-	0.204	1.000	0.204	0.796	0.555	1.558	2.397
16	0.186	-	0.169	1.000	0.169	0.831	0.534	1.605	2.540
17	0.201	-	0.137	1.000	0.137	0.863	0.513	1.653	2.693
18	0.218	-	0.110	1.000	0.110	0.890	0.494	1.702	2.854
19	0.237	-	0.086	1.000	0.086	0.914	0.475	1.754	3.026
20	0.258	-	0.065	1.000	0.065	0.935	0.456	1.806	3.207
21	0.282	-	0.048	1.000	0.048	0.952	0.439	1.860	3.400
22	0.309	-	0.035	1.000	0.035	0.965	0.422	1.916	3.604
23	0.339	-	0.024	1.000	0.024	0.976	0.406	1.974	3.820
24	0.371	-	0.016	1.000	0.016	0.984	0.390	2.033	4.049
25	0.406	-	0.010	1.000	0.010	0.990	0.375	2.094	4.292
26	0.444	-	0.006	1.000	0.006	0.994	0.361	2.157	4.549
27	0.475	-	0.003	1.000	0.003	0.997	0.347	2.221	4.822
28	0.506	-	0.002	1.000	0.002	0.998	0.333	2.288	5.112
29	0.539	-	0.001	1.000	0.001	0.999	0.321	2.357	5.418
30	0.575	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.616	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.661	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.713	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.773	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.841	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.918	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	7		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/1/1979	
(15)	**DATE OF FILING**		12/4/1979	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		96	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.04	1.97
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.04	1.97
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,156.37	69.73
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	15,753	15,206
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.094	2.018
(29)	APV OF MEDICAL BENEFIT	13,316	12,832

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.475	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.506	-	0.525	1.000	0.525	0.475	0.962	1.030	1.060
2	0.539	-	0.259	1.000	0.259	0.741	0.925	1.061	1.124
3	0.575	-	0.120	1.000	0.120	0.880	0.889	1.093	1.191
4	0.616	-	0.051	1.000	0.051	0.949	0.855	1.126	1.262
5	0.661	-	0.019	1.000	0.019	0.981	0.822	1.159	1.338
6	0.713	-	0.007	1.000	0.007	0.993	0.790	1.194	1.419
7	0.773	-	0.002	1.000	0.002	0.998	0.760	1.230	1.504
8	0.841	-	0.000	1.000	0.000	1.000	0.731	1.267	1.594
9	0.918	-	0.000	1.000	0.000	1.000	0.703	1.305	1.689
10	1.000	-	0.000	1.000	0.000	1.000	0.676	1.344	1.791
11	-	-	-	1.000	-	1.000	0.650	1.384	1.898
12	-	-	-	1.000	-	1.000	0.625	1.426	2.012
13	-	-	-	1.000	-	1.000	0.601	1.469	2.133
14	-	-	-	1.000	-	1.000	0.577	1.513	2.261
15	-	-	-	1.000	-	1.000	0.555	1.558	2.397
16	-	-	-	1.000	-	1.000	0.534	1.605	2.540
17	-	-	-	1.000	-	1.000	0.513	1.653	2.693
18	-	-	-	1.000	-	1.000	0.494	1.702	2.854
19	-	-	-	1.000	-	1.000	0.475	1.754	3.026
20	-	-	-	1.000	-	1.000	0.456	1.806	3.207
21	-	-	-	1.000	-	1.000	0.439	1.860	3.400
22	-	-	-	1.000	-	1.000	0.422	1.916	3.604
23	-	-	-	1.000	-	1.000	0.406	1.974	3.820
24	-	-	-	1.000	-	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	8		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		7/1/1987	
(15)	**DATE OF FILING**		8/18/1987	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		79	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.71	5.74
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.71	5.74
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,151.70	65.95
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	51,890	44,386
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	7.623	6.423
(29)	APV OF MEDICAL BENEFIT	48,484	40,851

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.121	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.131	-	0.879	1.000	0.879	0.121	0.962	1.030	1.060
2	0.141	-	0.764	1.000	0.764	0.236	0.925	1.061	1.124
3	0.151	-	0.656	1.000	0.656	0.344	0.889	1.093	1.191
4	0.162	-	0.557	1.000	0.557	0.443	0.855	1.126	1.262
5	0.173	-	0.467	1.000	0.467	0.533	0.822	1.159	1.338
6	0.186	-	0.386	1.000	0.386	0.614	0.790	1.194	1.419
7	0.201	-	0.314	1.000	0.314	0.686	0.760	1.230	1.504
8	0.218	-	0.251	1.000	0.251	0.749	0.731	1.267	1.594
9	0.237	-	0.196	1.000	0.196	0.804	0.703	1.305	1.689
10	0.258	-	0.150	1.000	0.150	0.850	0.676	1.344	1.791
11	0.282	-	0.111	1.000	0.111	0.889	0.650	1.384	1.898
12	0.309	-	0.080	1.000	0.080	0.920	0.625	1.426	2.012
13	0.339	-	0.055	1.000	0.055	0.945	0.601	1.469	2.133
14	0.371	-	0.036	1.000	0.036	0.964	0.577	1.513	2.261
15	0.406	-	0.023	1.000	0.023	0.977	0.555	1.558	2.397
16	0.444	-	0.014	1.000	0.014	0.986	0.534	1.605	2.540
17	0.475	-	0.008	1.000	0.008	0.992	0.513	1.653	2.693
18	0.506	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.539	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.575	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.616	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.661	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.713	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.773	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.841	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.918	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
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87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
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94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
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99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	9		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		3/1/1989	
(15)	**DATE OF FILING**		3/9/1989	
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	71	M	
(17)	**CLAIMANT 2 (y)**	0		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.98	8.63
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.98	8.63
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,147.43	63.06
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	84,930	66,767
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	13.450	10.258
(29)	APV OF MEDICAL BENEFIT	85,545	65,241

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.064	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.069	-	0.936	1.000	0.936	0.064	0.962	1.030	1.060
2	0.074	-	0.872	1.000	0.872	0.128	0.925	1.061	1.124
3	0.080	-	0.807	1.000	0.807	0.193	0.889	1.093	1.191
4	0.086	-	0.743	1.000	0.743	0.257	0.855	1.126	1.262
5	0.094	-	0.679	1.000	0.679	0.321	0.822	1.159	1.338
6	0.102	-	0.615	1.000	0.615	0.385	0.790	1.194	1.419
7	0.111	-	0.553	1.000	0.553	0.447	0.760	1.230	1.504
8	0.121	-	0.491	1.000	0.491	0.509	0.731	1.267	1.594
9	0.131	-	0.432	1.000	0.432	0.568	0.703	1.305	1.689
10	0.141	-	0.375	1.000	0.375	0.625	0.676	1.344	1.791
11	0.151	-	0.322	1.000	0.322	0.678	0.650	1.384	1.898
12	0.162	-	0.274	1.000	0.274	0.726	0.625	1.426	2.012
13	0.173	-	0.229	1.000	0.229	0.771	0.601	1.469	2.133
14	0.186	-	0.190	1.000	0.190	0.810	0.577	1.513	2.261
15	0.201	-	0.154	1.000	0.154	0.846	0.555	1.558	2.397
16	0.218	-	0.123	1.000	0.123	0.877	0.534	1.605	2.540
17	0.237	-	0.096	1.000	0.096	0.904	0.513	1.653	2.693
18	0.258	-	0.074	1.000	0.074	0.926	0.494	1.702	2.854
19	0.282	-	0.055	1.000	0.055	0.945	0.475	1.754	3.026
20	0.309	-	0.039	1.000	0.039	0.961	0.456	1.806	3.207
21	0.339	-	0.027	1.000	0.027	0.973	0.439	1.860	3.400
22	0.371	-	0.018	1.000	0.018	0.982	0.422	1.916	3.604
23	0.406	-	0.011	1.000	0.011	0.989	0.406	1.974	3.820
24	0.444	-	0.007	1.000	0.007	0.993	0.390	2.033	4.049
25	0.475	-	0.004	1.000	0.004	0.996	0.375	2.094	4.292
26	0.506	-	0.002	1.000	0.002	0.998	0.361	2.157	4.549
27	0.539	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.575	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.616	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.661	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.713	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.773	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.841	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.918	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	10		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		11/1/1992	
(15)	**DATE OF FILING**		11/30/1992	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		80	M
(17)	**CLAIMANT 2 (y)**		0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.31	5.44
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.31	5.44
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,152.10	66.25
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	48,769	42,100
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	7.108	6.053
(29)	APV OF MEDICAL BENEFIT	45,206	38,495

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.131	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.141	-	0.869	1.000	0.869	0.131	0.962	1.030	1.060
2	0.151	-	0.747	1.000	0.747	0.253	0.925	1.061	1.124
3	0.162	-	0.634	1.000	0.634	0.366	0.889	1.093	1.191
4	0.173	-	0.531	1.000	0.531	0.469	0.855	1.126	1.262
5	0.186	-	0.439	1.000	0.439	0.561	0.822	1.159	1.338
6	0.201	-	0.357	1.000	0.357	0.643	0.790	1.194	1.419
7	0.218	-	0.285	1.000	0.285	0.715	0.760	1.230	1.504
8	0.237	-	0.223	1.000	0.223	0.777	0.731	1.267	1.594
9	0.258	-	0.170	1.000	0.170	0.830	0.703	1.305	1.689
10	0.282	-	0.126	1.000	0.126	0.874	0.676	1.344	1.791
11	0.309	-	0.091	1.000	0.091	0.909	0.650	1.384	1.898
12	0.339	-	0.063	1.000	0.063	0.937	0.625	1.426	2.012
13	0.371	-	0.041	1.000	0.041	0.959	0.601	1.469	2.133
14	0.406	-	0.026	1.000	0.026	0.974	0.577	1.513	2.261
15	0.444	-	0.015	1.000	0.015	0.985	0.555	1.558	2.397
16	0.475	-	0.009	1.000	0.009	0.991	0.534	1.605	2.540
17	0.506	-	0.005	1.000	0.005	0.995	0.513	1.653	2.693
18	0.539	-	0.002	1.000	0.002	0.998	0.494	1.702	2.854
19	0.575	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.616	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.661	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.713	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.773	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.841	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.918	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	1.000	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	11		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		4/1/1993	
(15)	**DATE OF FILING**		3/23/1995	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		70	M
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.64	9.04
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	90,011	69,927
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	91,648	68,903

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.064	-	0.941	1.000	0.941	0.059	0.962	1.030	1.060
2	0.069	-	0.880	1.000	0.880	0.120	0.925	1.061	1.124
3	0.074	-	0.820	1.000	0.820	0.180	0.889	1.093	1.191
4	0.080	-	0.759	1.000	0.759	0.241	0.855	1.126	1.262
5	0.086	-	0.699	1.000	0.699	0.301	0.822	1.159	1.338
6	0.094	-	0.639	1.000	0.639	0.361	0.790	1.194	1.419
7	0.102	-	0.579	1.000	0.579	0.421	0.760	1.230	1.504
8	0.111	-	0.520	1.000	0.520	0.480	0.731	1.267	1.594
9	0.121	-	0.462	1.000	0.462	0.538	0.703	1.305	1.689
10	0.131	-	0.406	1.000	0.406	0.594	0.676	1.344	1.791
11	0.141	-	0.353	1.000	0.353	0.647	0.650	1.384	1.898
12	0.151	-	0.303	1.000	0.303	0.697	0.625	1.426	2.012
13	0.162	-	0.257	1.000	0.257	0.743	0.601	1.469	2.133
14	0.173	-	0.216	1.000	0.216	0.784	0.577	1.513	2.261
15	0.186	-	0.178	1.000	0.178	0.822	0.555	1.558	2.397
16	0.201	-	0.145	1.000	0.145	0.855	0.534	1.605	2.540
17	0.218	-	0.116	1.000	0.116	0.884	0.513	1.653	2.693
18	0.237	-	0.091	1.000	0.091	0.909	0.494	1.702	2.854
19	0.258	-	0.069	1.000	0.069	0.931	0.475	1.754	3.026
20	0.282	-	0.051	1.000	0.051	0.949	0.456	1.806	3.207
21	0.309	-	0.037	1.000	0.037	0.963	0.439	1.860	3.400
22	0.339	-	0.025	1.000	0.025	0.975	0.422	1.916	3.604
23	0.371	-	0.017	1.000	0.017	0.983	0.406	1.974	3.820
24	0.406	-	0.011	1.000	0.011	0.989	0.390	2.033	4.049
25	0.444	-	0.006	1.000	0.006	0.994	0.375	2.094	4.292
26	0.475	-	0.003	1.000	0.003	0.997	0.361	2.157	4.549
27	0.506	-	0.002	1.000	0.002	0.998	0.347	2.221	4.822
28	0.539	-	0.001	1.000	0.001	0.999	0.333	2.288	5.112
29	0.575	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.616	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.661	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.713	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.773	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.841	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.918	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
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108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	12		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW		
(14)	**DATE OF INJURY**		9/1/2009	
(15)	**DATE OF FILING**		3/30/2010	
			Age	**Sex**
(16)	**CLAIMANT 1 (x)**		71	M
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.98	8.63
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.98	8.63
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	84,930	66,767
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	13.450	10.258
(29)	APV OF MEDICAL BENEFIT	85,545	65,241

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.064	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.069	-	0.936	1.000	0.936	0.064	0.962	1.030	1.060
2	0.074	-	0.872	1.000	0.872	0.128	0.925	1.061	1.124
3	0.080	-	0.807	1.000	0.807	0.193	0.889	1.093	1.191
4	0.086	-	0.743	1.000	0.743	0.257	0.855	1.126	1.262
5	0.094	-	0.679	1.000	0.679	0.321	0.822	1.159	1.338
6	0.102	-	0.615	1.000	0.615	0.385	0.790	1.194	1.419
7	0.111	-	0.553	1.000	0.553	0.447	0.760	1.230	1.504
8	0.121	-	0.491	1.000	0.491	0.509	0.731	1.267	1.594
9	0.131	-	0.432	1.000	0.432	0.568	0.703	1.305	1.689
10	0.141	-	0.375	1.000	0.375	0.625	0.676	1.344	1.791
11	0.151	-	0.322	1.000	0.322	0.678	0.650	1.384	1.898
12	0.162	-	0.274	1.000	0.274	0.726	0.625	1.426	2.012
13	0.173	-	0.229	1.000	0.229	0.771	0.601	1.469	2.133
14	0.186	-	0.190	1.000	0.190	0.810	0.577	1.513	2.261
15	0.201	-	0.154	1.000	0.154	0.846	0.555	1.558	2.397
16	0.218	-	0.123	1.000	0.123	0.877	0.534	1.605	2.540
17	0.237	-	0.096	1.000	0.096	0.904	0.513	1.653	2.693
18	0.258	-	0.074	1.000	0.074	0.926	0.494	1.702	2.854
19	0.282	-	0.055	1.000	0.055	0.945	0.475	1.754	3.026
20	0.309	-	0.039	1.000	0.039	0.961	0.456	1.806	3.207
21	0.339	-	0.027	1.000	0.027	0.973	0.439	1.860	3.400
22	0.371	-	0.018	1.000	0.018	0.982	0.422	1.916	3.604
23	0.406	-	0.011	1.000	0.011	0.989	0.406	1.974	3.820
24	0.444	-	0.007	1.000	0.007	0.993	0.390	2.033	4.049
25	0.475	-	0.004	1.000	0.004	0.996	0.375	2.094	4.292
26	0.506	-	0.002	1.000	0.002	0.998	0.361	2.157	4.549
27	0.539	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.575	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.616	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.661	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.713	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.773	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.841	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.918	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	13		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	2/1/2001		
(15)	**DATE OF FILING**	3/5/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	82	M	
(17)	**CLAIMANT 2 (y)**	86	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.57	4.89
(19)	APV FOR CLAIMANT 2	8.76	7.22
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.09	3.72
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	6.16	4.66
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	95,008	79,266
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	6.181	5.371
(29)	APV OF MEDICAL BENEFIT	39,313	34,161

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.151	0.075	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.162	0.084	0.849	0.925	0.785	0.204	0.962	1.030	1.060
2	0.173	0.094	0.712	0.847	0.603	0.353	0.925	1.061	1.124
3	0.186	0.105	0.588	0.767	0.451	0.453	0.889	1.093	1.191
4	0.201	0.116	0.478	0.687	0.329	0.508	0.855	1.126	1.262
5	0.218	0.129	0.382	0.607	0.232	0.525	0.822	1.159	1.338
6	0.237	0.142	0.299	0.529	0.158	0.512	0.790	1.194	1.419
7	0.258	0.156	0.228	0.454	0.104	0.475	0.760	1.230	1.504
8	0.282	0.171	0.169	0.383	0.065	0.423	0.731	1.267	1.594
9	0.309	0.186	0.121	0.318	0.039	0.362	0.703	1.305	1.689
10	0.339	0.203	0.084	0.259	0.022	0.299	0.676	1.344	1.791
11	0.371	0.220	0.055	0.206	0.011	0.239	0.650	1.384	1.898
12	0.406	0.238	0.035	0.161	0.006	0.185	0.625	1.426	2.012
13	0.444	0.257	0.021	0.123	0.003	0.138	0.601	1.469	2.133
14	0.475	0.276	0.012	0.091	0.001	0.101	0.577	1.513	2.261
15	0.506	0.297	0.006	0.066	0.000	0.071	0.555	1.558	2.397
16	0.539	0.317	0.003	0.046	0.000	0.049	0.534	1.605	2.540
17	0.575	0.339	0.001	0.032	0.000	0.033	0.513	1.653	2.693
18	0.616	0.361	0.001	0.021	0.000	0.022	0.494	1.702	2.854
19	0.661	0.384	0.000	0.013	0.000	0.014	0.475	1.754	3.026
20	0.713	0.405	0.000	0.008	0.000	0.008	0.456	1.806	3.207
21	0.773	0.425	0.000	0.005	0.000	0.005	0.439	1.860	3.400
22	0.841	0.444	0.000	0.003	0.000	0.003	0.422	1.916	3.604
23	0.918	0.464	0.000	0.002	0.000	0.002	0.406	1.974	3.820
24	1.000	0.482	0.000	0.001	0.000	0.001	0.390	2.033	4.049
25	-	0.495	-	0.000	-	0.000	0.375	2.094	4.292
26	-	0.500	-	0.000	-	0.000	0.361	2.157	4.549
27	-	0.500	-	0.000	-	0.000	0.347	2.221	4.822
28	-	0.500	-	0.000	-	0.000	0.333	2.288	5.112
29	-	0.500	-	0.000	-	0.000	0.321	2.357	5.418
30	-	0.500	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	1.000	-	0.000	-	0.000	0.264	2.732	7.251
35	-	-	-	-	-	-	0.253	2.814	7.686
36	-	-	-	-	-	-	0.244	2.898	8.147
37	-	-	-	-	-	-	0.234	2.985	8.636
38	-	-	-	-	-	-	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	14		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/26/2002		
(15)	**DATE OF FILING**	4/30/2002		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	67	M	
(17)	**CLAIMANT 2 (y)**	66	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.84	10.36
(19)	APV FOR CLAIMANT 2	30.71	18.75
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.98	9.27
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	20.59	10.58
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	298,142	189,266
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	17.737	12.744
(29)	APV OF MEDICAL BENEFIT	112,805	81,050

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.010	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.011	0.954	0.990	0.945	0.054	0.962	1.030	1.060
2	0.055	0.012	0.907	0.980	0.888	0.110	0.925	1.061	1.124
3	0.059	0.013	0.857	0.968	0.830	0.166	0.889	1.093	1.191
4	0.064	0.014	0.806	0.956	0.770	0.221	0.855	1.126	1.262
5	0.069	0.015	0.754	0.943	0.711	0.275	0.822	1.159	1.338
6	0.074	0.017	0.703	0.929	0.652	0.326	0.790	1.194	1.419
7	0.080	0.018	0.651	0.913	0.594	0.375	0.760	1.230	1.504
8	0.086	0.020	0.599	0.897	0.537	0.422	0.731	1.267	1.594
9	0.094	0.023	0.547	0.878	0.481	0.464	0.703	1.305	1.689
10	0.102	0.025	0.496	0.858	0.426	0.503	0.676	1.344	1.791
11	0.111	0.028	0.445	0.837	0.373	0.537	0.650	1.384	1.898
12	0.121	0.032	0.396	0.813	0.322	0.565	0.625	1.426	2.012
13	0.131	0.035	0.348	0.787	0.274	0.587	0.601	1.469	2.133
14	0.141	0.039	0.302	0.759	0.230	0.602	0.577	1.513	2.261
15	0.151	0.044	0.260	0.729	0.189	0.610	0.555	1.558	2.397
16	0.162	0.049	0.221	0.697	0.154	0.610	0.534	1.605	2.540
17	0.173	0.055	0.185	0.663	0.123	0.603	0.513	1.653	2.693
18	0.186	0.061	0.153	0.627	0.096	0.588	0.494	1.702	2.854
19	0.201	0.068	0.124	0.588	0.073	0.566	0.475	1.754	3.026
20	0.218	0.075	0.099	0.549	0.054	0.539	0.456	1.806	3.207
21	0.237	0.084	0.078	0.507	0.039	0.506	0.439	1.860	3.400
22	0.258	0.094	0.059	0.465	0.028	0.469	0.422	1.916	3.604
23	0.282	0.105	0.044	0.421	0.019	0.428	0.406	1.974	3.820
24	0.309	0.116	0.032	0.377	0.012	0.385	0.390	2.033	4.049
25	0.339	0.129	0.022	0.333	0.007	0.340	0.375	2.094	4.292
26	0.371	0.142	0.014	0.290	0.004	0.296	0.361	2.157	4.549
27	0.406	0.156	0.009	0.249	0.002	0.254	0.347	2.221	4.822
28	0.444	0.171	0.005	0.210	0.001	0.213	0.333	2.288	5.112
29	0.475	0.186	0.003	0.174	0.001	0.176	0.321	2.357	5.418
30	0.506	0.203	0.002	0.142	0.000	0.143	0.308	2.427	5.743
31	0.539	0.220	0.001	0.113	0.000	0.114	0.296	2.500	6.088
32	0.575	0.238	0.000	0.088	0.000	0.089	0.285	2.575	6.453
33	0.616	0.257	0.000	0.067	0.000	0.067	0.274	2.652	6.841
34	0.661	0.276	0.000	0.050	0.000	0.050	0.264	2.732	7.251
35	0.713	0.297	0.000	0.036	0.000	0.036	0.253	2.814	7.686
36	0.773	0.317	0.000	0.025	0.000	0.025	0.244	2.898	8.147
37	0.841	0.339	0.000	0.017	0.000	0.017	0.234	2.985	8.636
38	0.918	0.361	0.000	0.012	0.000	0.012	0.225	3.075	9.154
39	1.000	0.384	0.000	0.007	0.000	0.007	0.217	3.167	9.704
40	-	0.405	-	0.005	-	0.005	0.208	3.262	10.286
41	-	0.425	-	0.003	-	0.003	0.200	3.360	10.903
42	-	0.444	-	0.002	-	0.002	0.193	3.461	11.557
43	-	0.464	-	0.001	-	0.001	0.185	3.565	12.250
44	-	0.482	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.495	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	1.000	-	0.000	-	0.000	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	15		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	9/13/2002		
(15)	**DATE OF FILING**	9/26/2002		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	55	M	
(17)	**CLAIMANT 2 (y)**	51	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	27.26	17.09
(19)	APV FOR CLAIMANT 2	63.23	29.04
(20)	APV FOR BOTH CLAIMANTS ALIVE	25.10	16.19
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	40.28	13.75
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	602,608	294,083
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	41.324	23.793
(29)	APV OF MEDICAL BENEFIT	262,819	151,321

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.014	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.015	0.002	0.986	0.998	0.984	0.016	0.962	1.030	1.060
2	0.017	0.002	0.971	0.997	0.968	0.032	0.925	1.061	1.124
3	0.018	0.002	0.954	0.995	0.949	0.050	0.889	1.093	1.191
4	0.020	0.002	0.937	0.993	0.930	0.069	0.855	1.126	1.262
5	0.022	0.003	0.918	0.990	0.909	0.090	0.822	1.159	1.338
6	0.024	0.003	0.898	0.988	0.887	0.112	0.790	1.194	1.419
7	0.027	0.003	0.876	0.985	0.863	0.135	0.760	1.230	1.504
8	0.030	0.004	0.853	0.982	0.837	0.160	0.731	1.267	1.594
9	0.033	0.004	0.828	0.978	0.809	0.187	0.703	1.305	1.689
10	0.037	0.005	0.801	0.974	0.779	0.215	0.676	1.344	1.791
11	0.041	0.006	0.771	0.969	0.747	0.246	0.650	1.384	1.898
12	0.046	0.007	0.740	0.963	0.712	0.278	0.625	1.426	2.012
13	0.050	0.008	0.706	0.957	0.675	0.312	0.601	1.469	2.133
14	0.055	0.009	0.670	0.949	0.636	0.347	0.577	1.513	2.261
15	0.059	0.010	0.634	0.941	0.596	0.382	0.555	1.558	2.397
16	0.064	0.011	0.596	0.932	0.555	0.417	0.534	1.605	2.540
17	0.069	0.012	0.558	0.922	0.514	0.451	0.513	1.653	2.693
18	0.074	0.013	0.520	0.911	0.473	0.484	0.494	1.702	2.854
19	0.080	0.014	0.481	0.899	0.433	0.515	0.475	1.754	3.026
20	0.086	0.015	0.443	0.887	0.393	0.544	0.456	1.806	3.207
21	0.094	0.017	0.405	0.874	0.354	0.571	0.439	1.860	3.400
22	0.102	0.018	0.367	0.859	0.315	0.596	0.422	1.916	3.604
23	0.111	0.020	0.329	0.844	0.278	0.617	0.406	1.974	3.820
24	0.121	0.023	0.293	0.826	0.242	0.635	0.390	2.033	4.049
25	0.131	0.025	0.257	0.808	0.208	0.649	0.375	2.094	4.292
26	0.141	0.028	0.224	0.787	0.176	0.659	0.361	2.157	4.549
27	0.151	0.032	0.192	0.765	0.147	0.663	0.347	2.221	4.822
28	0.162	0.035	0.163	0.741	0.121	0.662	0.333	2.288	5.112
29	0.173	0.039	0.137	0.714	0.098	0.656	0.321	2.357	5.418
30	0.186	0.044	0.113	0.686	0.078	0.644	0.308	2.427	5.743
31	0.201	0.049	0.092	0.656	0.060	0.627	0.296	2.500	6.088
32	0.218	0.055	0.073	0.624	0.046	0.606	0.285	2.575	6.453
33	0.237	0.061	0.057	0.590	0.034	0.579	0.274	2.652	6.841
34	0.258	0.068	0.044	0.554	0.024	0.549	0.264	2.732	7.251
35	0.282	0.075	0.032	0.516	0.017	0.515	0.253	2.814	7.686
36	0.309	0.084	0.023	0.477	0.011	0.478	0.244	2.898	8.147
37	0.339	0.094	0.016	0.437	0.007	0.439	0.234	2.985	8.636
38	0.371	0.105	0.011	0.396	0.004	0.398	0.225	3.075	9.154
39	0.406	0.116	0.007	0.355	0.002	0.357	0.217	3.167	9.704
40	0.444	0.129	0.004	0.314	0.001	0.315	0.208	3.262	10.286
41	0.475	0.142	0.002	0.273	0.001	0.274	0.200	3.360	10.903
42	0.506	0.156	0.001	0.234	0.000	0.235	0.193	3.461	11.557
43	0.539	0.171	0.001	0.198	0.000	0.198	0.185	3.565	12.250
44	0.575	0.186	0.000	0.164	0.000	0.164	0.178	3.671	12.985
45	0.616	0.203	0.000	0.134	0.000	0.134	0.171	3.782	13.765
46	0.661	0.220	0.000	0.106	0.000	0.107	0.165	3.895	14.590
47	0.713	0.238	0.000	0.083	0.000	0.083	0.158	4.012	15.466
48	0.773	0.257	0.000	0.063	0.000	0.063	0.152	4.132	16.394
49	0.841	0.276	0.000	0.047	0.000	0.047	0.146	4.256	17.378
50	0.918	0.297	0.000	0.034	0.000	0.034	0.141	4.384	18.420
51	1.000	0.317	0.000	0.024	0.000	0.024	0.135	4.515	19.525
52	-	0.339	-	0.016	-	0.016	0.130	4.651	20.697
53	-	0.361	-	0.011	-	0.011	0.125	4.790	21.939
54	-	0.384	-	0.007	-	0.007	0.120	4.934	23.255
55	-	0.405	-	0.004	-	0.004	0.116	5.082	24.650
56	-	0.425	-	0.003	-	0.003	0.111	5.235	26.129
57	-	0.444	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.464	-	0.001	-	0.001	0.103	5.553	29.359
59	-	0.482	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.495	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	0.500	-	0.000	-	0.000	0.069	7.463	52.577
69	-	1.000	-	0.000	-	0.000	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	16		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/24/2003		
(15)	**DATE OF FILING**	2/10/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	61	M	
(17)	**CLAIMANT 2 (y)**	62	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		19.63	13.52
(19)	APV FOR CLAIMANT 2		37.72	21.43
(20)	APV FOR BOTH CLAIMANTS ALIVE		16.81	12.08
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		23.73	10.79
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		378,443	223,540
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT		27.193	17.629
(29)	APV OF MEDICAL BENEFIT		172,948	112,120

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.024	0.006	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.027	0.007	0.976	0.994	0.970	0.030	0.962	1.030	1.060
2	0.030	0.008	0.950	0.988	0.938	0.061	0.925	1.061	1.124
3	0.033	0.009	0.922	0.980	0.903	0.095	0.889	1.093	1.191
4	0.037	0.010	0.891	0.972	0.866	0.131	0.855	1.126	1.262
5	0.041	0.011	0.859	0.962	0.826	0.168	0.822	1.159	1.338
6	0.046	0.012	0.824	0.952	0.784	0.208	0.790	1.194	1.419
7	0.050	0.013	0.786	0.941	0.739	0.248	0.760	1.230	1.504
8	0.055	0.014	0.747	0.929	0.693	0.289	0.731	1.267	1.594
9	0.059	0.015	0.706	0.916	0.646	0.329	0.703	1.305	1.689
10	0.064	0.017	0.664	0.902	0.599	0.368	0.676	1.344	1.791
11	0.069	0.018	0.621	0.887	0.551	0.406	0.650	1.384	1.898
12	0.074	0.020	0.579	0.871	0.504	0.442	0.625	1.426	2.012
13	0.080	0.023	0.536	0.853	0.457	0.475	0.601	1.469	2.133
14	0.086	0.025	0.493	0.834	0.411	0.505	0.577	1.513	2.261
15	0.094	0.028	0.451	0.813	0.366	0.531	0.555	1.558	2.397
16	0.102	0.032	0.408	0.790	0.323	0.553	0.534	1.605	2.540
17	0.111	0.035	0.367	0.765	0.280	0.571	0.513	1.653	2.693
18	0.121	0.039	0.326	0.738	0.240	0.583	0.494	1.702	2.854
19	0.131	0.044	0.286	0.709	0.203	0.589	0.475	1.754	3.026
20	0.141	0.049	0.249	0.677	0.169	0.589	0.456	1.806	3.207
21	0.151	0.055	0.214	0.644	0.138	0.582	0.439	1.860	3.400
22	0.162	0.061	0.182	0.609	0.111	0.569	0.422	1.916	3.604
23	0.173	0.068	0.152	0.572	0.087	0.550	0.406	1.974	3.820
24	0.186	0.075	0.126	0.533	0.067	0.525	0.390	2.033	4.049
25	0.201	0.084	0.102	0.493	0.050	0.494	0.375	2.094	4.292
26	0.218	0.094	0.082	0.451	0.037	0.459	0.361	2.157	4.549
27	0.237	0.105	0.064	0.409	0.026	0.421	0.347	2.221	4.822
28	0.258	0.116	0.049	0.366	0.018	0.379	0.333	2.288	5.112
29	0.282	0.129	0.036	0.324	0.012	0.336	0.321	2.357	5.418
30	0.309	0.142	0.026	0.282	0.007	0.293	0.308	2.427	5.743
31	0.339	0.156	0.018	0.242	0.004	0.251	0.296	2.500	6.088
32	0.371	0.171	0.012	0.204	0.002	0.211	0.285	2.575	6.453
33	0.406	0.186	0.007	0.169	0.001	0.174	0.274	2.652	6.841
34	0.444	0.203	0.004	0.138	0.001	0.141	0.264	2.732	7.251
35	0.475	0.220	0.002	0.110	0.000	0.112	0.253	2.814	7.686
36	0.506	0.238	0.001	0.086	0.000	0.087	0.244	2.898	8.147
37	0.539	0.257	0.001	0.065	0.000	0.066	0.234	2.985	8.636
38	0.575	0.276	0.000	0.049	0.000	0.049	0.225	3.075	9.154
39	0.616	0.297	0.000	0.035	0.000	0.035	0.217	3.167	9.704
40	0.661	0.317	0.000	0.025	0.000	0.025	0.208	3.262	10.286
41	0.713	0.339	0.000	0.017	0.000	0.017	0.200	3.360	10.903
42	0.773	0.361	0.000	0.011	0.000	0.011	0.193	3.461	11.557
43	0.841	0.384	0.000	0.007	0.000	0.007	0.185	3.565	12.250
44	0.918	0.405	0.000	0.004	0.000	0.004	0.178	3.671	12.985
45	1.000	0.425	0.000	0.003	0.000	0.003	0.171	3.782	13.765
46	-	0.444	-	0.002	-	0.002	0.165	3.895	14.590
47	-	0.464	-	0.001	-	0.001	0.158	4.012	15.466
48	-	0.482	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.495	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	1.000	-	0.000	-	0.000	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
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73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

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(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	17		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	2/26/2003		
(15)	**DATE OF FILING**	3/3/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	72	M	
(17)	**CLAIMANT 2 (y)**	53	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		10.36	8.24
(19)	APV FOR CLAIMANT 2		57.88	27.67
(20)	APV FOR BOTH CLAIMANTS ALIVE		10.11	8.08
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		48.01	19.74
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		488,522	246,379
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT		12.549	9.704
(29)	APV OF MEDICAL BENEFIT		79,809	61,718

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.002	0.931	0.998	0.930	0.070	0.962	1.030	1.060
2	0.080	0.002	0.863	0.996	0.859	0.140	0.925	1.061	1.124
3	0.086	0.003	0.794	0.994	0.789	0.210	0.889	1.093	1.191
4	0.094	0.003	0.726	0.991	0.719	0.278	0.855	1.126	1.262
5	0.102	0.003	0.658	0.988	0.650	0.346	0.822	1.159	1.338
6	0.111	0.004	0.590	0.985	0.581	0.412	0.790	1.194	1.419
7	0.121	0.004	0.525	0.981	0.515	0.476	0.760	1.230	1.504
8	0.131	0.005	0.461	0.977	0.450	0.537	0.731	1.267	1.594
9	0.141	0.006	0.401	0.972	0.390	0.594	0.703	1.305	1.689
10	0.151	0.007	0.344	0.966	0.333	0.645	0.676	1.344	1.791
11	0.162	0.008	0.292	0.960	0.281	0.691	0.650	1.384	1.898
12	0.173	0.009	0.245	0.952	0.233	0.731	0.625	1.426	2.012
13	0.186	0.010	0.203	0.944	0.191	0.764	0.601	1.469	2.133
14	0.201	0.011	0.165	0.935	0.154	0.792	0.577	1.513	2.261
15	0.218	0.012	0.132	0.925	0.122	0.813	0.555	1.558	2.397
16	0.237	0.013	0.103	0.914	0.094	0.829	0.534	1.605	2.540
17	0.258	0.014	0.079	0.902	0.071	0.839	0.513	1.653	2.693
18	0.282	0.015	0.058	0.890	0.052	0.845	0.494	1.702	2.854
19	0.309	0.017	0.042	0.877	0.037	0.845	0.475	1.754	3.026
20	0.339	0.018	0.029	0.862	0.025	0.841	0.456	1.806	3.207
21	0.371	0.020	0.019	0.846	0.016	0.833	0.439	1.860	3.400
22	0.406	0.023	0.012	0.829	0.010	0.821	0.422	1.916	3.604
23	0.444	0.025	0.007	0.810	0.006	0.806	0.406	1.974	3.820
24	0.475	0.028	0.004	0.790	0.003	0.788	0.390	2.033	4.049
25	0.506	0.032	0.002	0.767	0.002	0.766	0.375	2.094	4.292
26	0.539	0.035	0.001	0.743	0.001	0.743	0.361	2.157	4.549
27	0.575	0.039	0.000	0.717	0.000	0.717	0.347	2.221	4.822
28	0.616	0.044	0.000	0.689	0.000	0.689	0.333	2.288	5.112
29	0.661	0.049	0.000	0.658	0.000	0.658	0.321	2.357	5.418
30	0.713	0.055	0.000	0.626	0.000	0.626	0.308	2.427	5.743
31	0.773	0.061	0.000	0.592	0.000	0.592	0.296	2.500	6.088
32	0.841	0.068	0.000	0.556	0.000	0.556	0.285	2.575	6.453
33	0.918	0.075	0.000	0.518	0.000	0.518	0.274	2.652	6.841
34	1.000	0.084	0.000	0.479	0.000	0.479	0.264	2.732	7.251
35	-	0.094	-	0.439	-	0.439	0.253	2.814	7.686
36	-	0.105	-	0.398	-	0.398	0.244	2.898	8.147
37	-	0.116	-	0.356	-	0.356	0.234	2.985	8.636
38	-	0.129	-	0.315	-	0.315	0.225	3.075	9.154
39	-	0.142	-	0.274	-	0.274	0.217	3.167	9.704
40	-	0.156	-	0.235	-	0.235	0.208	3.262	10.286
41	-	0.171	-	0.198	-	0.198	0.200	3.360	10.903
42	-	0.186	-	0.165	-	0.165	0.193	3.461	11.557
43	-	0.203	-	0.134	-	0.134	0.185	3.565	12.250
44	-	0.220	-	0.107	-	0.107	0.178	3.671	12.985
45	-	0.238	-	0.083	-	0.083	0.171	3.782	13.765
46	-	0.257	-	0.064	-	0.064	0.165	3.895	14.590
47	-	0.276	-	0.047	-	0.047	0.158	4.012	15.466
48	-	0.297	-	0.034	-	0.034	0.152	4.132	16.394
49	-	0.317	-	0.024	-	0.024	0.146	4.256	17.378
50	-	0.339	-	0.016	-	0.016	0.141	4.384	18.420
51	-	0.361	-	0.011	-	0.011	0.135	4.515	19.525
52	-	0.384	-	0.007	-	0.007	0.130	4.651	20.697
53	-	0.405	-	0.004	-	0.004	0.125	4.790	21.939
54	-	0.425	-	0.003	-	0.003	0.120	4.934	23.255
55	-	0.444	-	0.001	-	0.001	0.116	5.082	24.650
56	-	0.464	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.482	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.495	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	1.000	-	0.000	-	0.000	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	18		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	11/14/2003		
(15)	**DATE OF FILING**	11/17/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	67	M	
(17)	**CLAIMANT 2 (y)**	60	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.84	10.36
(19)	APV FOR CLAIMANT 2	41.66	22.81
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.77	9.74
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	29.96	13.68
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	379,783	218,797
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	17.737	12.744
(29)	APV OF MEDICAL BENEFIT	112,805	81,050

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.046	0.004	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.050	0.005	0.954	0.996	0.950	0.050	0.962	1.030	1.060
2	0.055	0.006	0.907	0.990	0.898	0.101	0.925	1.061	1.124
3	0.059	0.007	0.857	0.985	0.844	0.154	0.889	1.093	1.191
4	0.064	0.008	0.806	0.978	0.788	0.207	0.855	1.126	1.262
5	0.069	0.009	0.754	0.971	0.732	0.261	0.822	1.159	1.338
6	0.074	0.010	0.703	0.962	0.676	0.313	0.790	1.194	1.419
7	0.080	0.011	0.651	0.953	0.620	0.363	0.760	1.230	1.504
8	0.086	0.012	0.599	0.943	0.565	0.412	0.731	1.267	1.594
9	0.094	0.013	0.547	0.932	0.510	0.459	0.703	1.305	1.689
10	0.102	0.014	0.496	0.920	0.456	0.503	0.676	1.344	1.791
11	0.111	0.015	0.445	0.907	0.404	0.545	0.650	1.384	1.898
12	0.121	0.017	0.396	0.894	0.354	0.582	0.625	1.426	2.012
13	0.131	0.018	0.348	0.879	0.306	0.615	0.601	1.469	2.133
14	0.141	0.020	0.302	0.863	0.261	0.643	0.577	1.513	2.261
15	0.151	0.023	0.260	0.845	0.220	0.666	0.555	1.558	2.397
16	0.162	0.025	0.221	0.826	0.182	0.682	0.534	1.605	2.540
17	0.173	0.028	0.185	0.805	0.149	0.692	0.513	1.653	2.693
18	0.186	0.032	0.153	0.782	0.120	0.696	0.494	1.702	2.854
19	0.201	0.035	0.124	0.757	0.094	0.693	0.475	1.754	3.026
20	0.218	0.039	0.099	0.731	0.073	0.685	0.456	1.806	3.207
21	0.237	0.044	0.078	0.702	0.055	0.670	0.439	1.860	3.400
22	0.258	0.049	0.059	0.671	0.040	0.651	0.422	1.916	3.604
23	0.282	0.055	0.044	0.638	0.028	0.626	0.406	1.974	3.820
24	0.309	0.061	0.032	0.603	0.019	0.597	0.390	2.033	4.049
25	0.339	0.068	0.022	0.566	0.012	0.563	0.375	2.094	4.292
26	0.371	0.075	0.014	0.528	0.008	0.527	0.361	2.157	4.549
27	0.406	0.084	0.009	0.488	0.004	0.488	0.347	2.221	4.822
28	0.444	0.094	0.005	0.447	0.002	0.448	0.333	2.288	5.112
29	0.475	0.105	0.003	0.405	0.001	0.406	0.321	2.357	5.418
30	0.506	0.116	0.002	0.363	0.001	0.363	0.308	2.427	5.743
31	0.539	0.129	0.001	0.321	0.000	0.321	0.296	2.500	6.088
32	0.575	0.142	0.000	0.279	0.000	0.279	0.285	2.575	6.453
33	0.616	0.156	0.000	0.240	0.000	0.240	0.274	2.652	6.841
34	0.661	0.171	0.000	0.202	0.000	0.202	0.264	2.732	7.251
35	0.713	0.186	0.000	0.168	0.000	0.168	0.253	2.814	7.686
36	0.773	0.203	0.000	0.137	0.000	0.137	0.244	2.898	8.147
37	0.841	0.220	0.000	0.109	0.000	0.109	0.234	2.985	8.636
38	0.918	0.238	0.000	0.085	0.000	0.085	0.225	3.075	9.154
39	1.000	0.257	0.000	0.065	0.000	0.065	0.217	3.167	9.704
40	-	0.276	-	0.048	-	0.048	0.208	3.262	10.286
41	-	0.297	-	0.035	-	0.035	0.200	3.360	10.903
42	-	0.317	-	0.024	-	0.024	0.193	3.461	11.557
43	-	0.339	-	0.017	-	0.017	0.185	3.565	12.250
44	-	0.361	-	0.011	-	0.011	0.178	3.671	12.985
45	-	0.384	-	0.007	-	0.007	0.171	3.782	13.765
46	-	0.405	-	0.004	-	0.004	0.165	3.895	14.590
47	-	0.425	-	0.003	-	0.003	0.158	4.012	15.466
48	-	0.444	-	0.001	-	0.001	0.152	4.132	16.394
49	-	0.464	-	0.001	-	0.001	0.146	4.256	17.378
50	-	0.482	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.495	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	1.000	-	0.000	-	0.000	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
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(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	19		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	12/8/2003		
(15)	**DATE OF FILING**	12/9/2003		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	63	M	
(17)	**CLAIMANT 2 (y)**	59	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	17.49	12.40
(19)	APV FOR CLAIMANT 2	43.74	23.50
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.84	11.53
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	29.55	12.84
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	412,246	233,022
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	23.574	15.845
(29)	APV OF MEDICAL BENEFIT	149,932	100,775

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.030	0.004	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.033	0.004	0.970	0.996	0.967	0.033	0.962	1.030	1.060
2	0.037	0.005	0.939	0.992	0.931	0.069	0.925	1.061	1.124
3	0.041	0.006	0.904	0.987	0.892	0.107	0.889	1.093	1.191
4	0.046	0.007	0.867	0.981	0.850	0.147	0.855	1.126	1.262
5	0.050	0.008	0.828	0.974	0.806	0.189	0.822	1.159	1.338
6	0.055	0.009	0.786	0.967	0.760	0.233	0.790	1.194	1.419
7	0.059	0.010	0.743	0.959	0.712	0.277	0.760	1.230	1.504
8	0.064	0.011	0.699	0.949	0.663	0.321	0.731	1.267	1.594
9	0.069	0.012	0.654	0.939	0.614	0.365	0.703	1.305	1.689
10	0.074	0.013	0.609	0.928	0.565	0.407	0.676	1.344	1.791
11	0.080	0.014	0.564	0.916	0.517	0.447	0.650	1.384	1.898
12	0.086	0.015	0.519	0.904	0.469	0.484	0.625	1.426	2.012
13	0.094	0.017	0.475	0.890	0.422	0.520	0.601	1.469	2.133
14	0.102	0.018	0.430	0.875	0.376	0.553	0.577	1.513	2.261
15	0.111	0.020	0.386	0.859	0.332	0.582	0.555	1.558	2.397
16	0.121	0.023	0.343	0.842	0.289	0.607	0.534	1.605	2.540
17	0.131	0.025	0.302	0.823	0.248	0.628	0.513	1.653	2.693
18	0.141	0.028	0.262	0.802	0.210	0.644	0.494	1.702	2.854
19	0.151	0.032	0.225	0.779	0.176	0.653	0.475	1.754	3.026
20	0.162	0.035	0.191	0.754	0.144	0.657	0.456	1.806	3.207
21	0.173	0.039	0.160	0.728	0.117	0.655	0.439	1.860	3.400
22	0.186	0.044	0.132	0.699	0.093	0.646	0.422	1.916	3.604
23	0.201	0.049	0.108	0.668	0.072	0.632	0.406	1.974	3.820
24	0.218	0.055	0.086	0.636	0.055	0.612	0.390	2.033	4.049
25	0.237	0.061	0.067	0.601	0.040	0.587	0.375	2.094	4.292
26	0.258	0.068	0.051	0.564	0.029	0.557	0.361	2.157	4.549
27	0.282	0.075	0.038	0.526	0.020	0.524	0.347	2.221	4.822
28	0.309	0.084	0.027	0.486	0.013	0.487	0.333	2.288	5.112
29	0.339	0.094	0.019	0.445	0.008	0.447	0.321	2.357	5.418
30	0.371	0.105	0.012	0.404	0.005	0.406	0.308	2.427	5.743
31	0.406	0.116	0.008	0.361	0.003	0.364	0.296	2.500	6.088
32	0.444	0.129	0.005	0.319	0.001	0.321	0.285	2.575	6.453
33	0.475	0.142	0.003	0.278	0.001	0.279	0.274	2.652	6.841
34	0.506	0.156	0.001	0.239	0.000	0.239	0.264	2.732	7.251
35	0.539	0.171	0.001	0.202	0.000	0.202	0.253	2.814	7.686
36	0.575	0.186	0.000	0.167	0.000	0.167	0.244	2.898	8.147
37	0.616	0.203	0.000	0.136	0.000	0.136	0.234	2.985	8.636
38	0.661	0.220	0.000	0.108	0.000	0.108	0.225	3.075	9.154
39	0.713	0.238	0.000	0.085	0.000	0.085	0.217	3.167	9.704
40	0.773	0.257	0.000	0.065	0.000	0.065	0.208	3.262	10.286
41	0.841	0.276	0.000	0.048	0.000	0.048	0.200	3.360	10.903
42	0.918	0.297	0.000	0.035	0.000	0.035	0.193	3.461	11.557
43	1.000	0.317	0.000	0.024	0.000	0.024	0.185	3.565	12.250
44	-	0.339	-	0.017	-	0.017	0.178	3.671	12.985
45	-	0.361	-	0.011	-	0.011	0.171	3.782	13.765
46	-	0.384	-	0.007	-	0.007	0.165	3.895	14.590
47	-	0.405	-	0.004	-	0.004	0.158	4.012	15.466
48	-	0.425	-	0.003	-	0.003	0.152	4.132	16.394
49	-	0.444	-	0.001	-	0.001	0.146	4.256	17.378
50	-	0.464	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.482	-	0.000	-	0.000	0.135	4.515	19.525
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
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BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	20		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	10/20/2005		
(15)	**DATE OF FILING**	10/21/2005		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	64	M	
(17)	**CLAIMANT 2 (y)**	66	F	
			NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1		16.50	11.86
(19)	APV FOR CLAIMANT 2		30.71	18.75
(20)	APV FOR BOTH CLAIMANTS ALIVE		13.78	10.36
(21)	APV FOR ONLY 1 CLAIMANT ALIVE		19.64	9.89
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE		11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE		7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT		311,715	196,643
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY		625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY		7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT		6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT		21.945	15.009
(29)	APV OF MEDICAL BENEFIT		139,571	95,455

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.033	0.010	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.037	0.011	0.967	0.990	0.958	0.042	0.962	1.030	1.060
2	0.041	0.012	0.932	0.980	0.913	0.086	0.925	1.061	1.124
3	0.046	0.013	0.893	0.968	0.865	0.132	0.889	1.093	1.191
4	0.050	0.014	0.853	0.956	0.815	0.178	0.855	1.126	1.262
5	0.055	0.015	0.810	0.943	0.764	0.226	0.822	1.159	1.338
6	0.059	0.017	0.766	0.929	0.711	0.272	0.790	1.194	1.419
7	0.064	0.018	0.720	0.913	0.658	0.318	0.760	1.230	1.504
8	0.069	0.020	0.674	0.897	0.604	0.362	0.731	1.267	1.594
9	0.074	0.023	0.628	0.878	0.551	0.403	0.703	1.305	1.689
10	0.080	0.025	0.581	0.858	0.499	0.442	0.676	1.344	1.791
11	0.086	0.028	0.535	0.837	0.448	0.476	0.650	1.384	1.898
12	0.094	0.032	0.489	0.813	0.397	0.507	0.625	1.426	2.012
13	0.102	0.035	0.443	0.787	0.349	0.533	0.601	1.469	2.133
14	0.111	0.039	0.398	0.759	0.302	0.553	0.577	1.513	2.261
15	0.121	0.044	0.354	0.729	0.258	0.567	0.555	1.558	2.397
16	0.131	0.049	0.311	0.697	0.217	0.575	0.534	1.605	2.540
17	0.141	0.055	0.270	0.663	0.179	0.575	0.513	1.653	2.693
18	0.151	0.061	0.232	0.627	0.145	0.568	0.494	1.702	2.854
19	0.162	0.068	0.197	0.588	0.116	0.554	0.475	1.754	3.026
20	0.173	0.075	0.165	0.549	0.091	0.533	0.456	1.806	3.207
21	0.186	0.084	0.136	0.507	0.069	0.505	0.439	1.860	3.400
22	0.201	0.094	0.111	0.465	0.052	0.472	0.422	1.916	3.604
23	0.218	0.105	0.089	0.421	0.037	0.435	0.406	1.974	3.820
24	0.237	0.116	0.069	0.377	0.026	0.394	0.390	2.033	4.049
25	0.258	0.129	0.053	0.333	0.018	0.351	0.375	2.094	4.292
26	0.282	0.142	0.039	0.290	0.011	0.307	0.361	2.157	4.549
27	0.309	0.156	0.028	0.249	0.007	0.263	0.347	2.221	4.822
28	0.339	0.171	0.019	0.210	0.004	0.221	0.333	2.288	5.112
29	0.371	0.186	0.013	0.174	0.002	0.183	0.321	2.357	5.418
30	0.406	0.203	0.008	0.142	0.001	0.148	0.308	2.427	5.743
31	0.444	0.220	0.005	0.113	0.001	0.117	0.296	2.500	6.088
32	0.475	0.238	0.003	0.088	0.000	0.090	0.285	2.575	6.453
33	0.506	0.257	0.001	0.067	0.000	0.069	0.274	2.652	6.841
34	0.539	0.276	0.001	0.050	0.000	0.051	0.264	2.732	7.251
35	0.575	0.297	0.000	0.036	0.000	0.036	0.253	2.814	7.686
36	0.616	0.317	0.000	0.025	0.000	0.026	0.244	2.898	8.147
37	0.661	0.339	0.000	0.017	0.000	0.017	0.234	2.985	8.636
38	0.713	0.361	0.000	0.012	0.000	0.012	0.225	3.075	9.154
39	0.773	0.384	0.000	0.007	0.000	0.007	0.217	3.167	9.704
40	0.841	0.405	0.000	0.005	0.000	0.005	0.208	3.262	10.286
41	0.918	0.425	0.000	0.003	0.000	0.003	0.200	3.360	10.903
42	1.000	0.444	0.000	0.002	0.000	0.002	0.193	3.461	11.557
43	-	0.464	-	0.001	-	0.001	0.185	3.565	12.250
44	-	0.482	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.495	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	1.000	-	0.000	-	0.000	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	21		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	8/22/2006		
(15)	**DATE OF FILING**	8/30/2006		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	65	M	
(17)	**CLAIMANT 2 (y)**	62	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.56	11.34
(19)	APV FOR CLAIMANT 2	37.72	21.43
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.87	10.40
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	25.54	11.97
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	358,332	213,200
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	20.432	14.212
(29)	APV OF MEDICAL BENEFIT	129,945	90,387

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.037	0.006	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.041	0.007	0.963	0.994	0.958	0.042	0.962	1.030	1.060
2	0.046	0.008	0.924	0.988	0.912	0.087	0.925	1.061	1.124
3	0.050	0.009	0.882	0.980	0.864	0.133	0.889	1.093	1.191
4	0.055	0.010	0.838	0.972	0.814	0.182	0.855	1.126	1.262
5	0.059	0.011	0.792	0.962	0.762	0.230	0.822	1.159	1.338
6	0.064	0.012	0.745	0.952	0.709	0.279	0.790	1.194	1.419
7	0.069	0.013	0.697	0.941	0.655	0.326	0.760	1.230	1.504
8	0.074	0.014	0.649	0.929	0.603	0.372	0.731	1.267	1.594
9	0.080	0.015	0.601	0.916	0.551	0.416	0.703	1.305	1.689
10	0.086	0.017	0.553	0.902	0.499	0.457	0.676	1.344	1.791
11	0.094	0.018	0.506	0.887	0.449	0.496	0.650	1.384	1.898
12	0.102	0.020	0.458	0.871	0.399	0.531	0.625	1.426	2.012
13	0.111	0.023	0.411	0.853	0.351	0.563	0.601	1.469	2.133
14	0.121	0.025	0.366	0.834	0.305	0.590	0.577	1.513	2.261
15	0.131	0.028	0.321	0.813	0.261	0.612	0.555	1.558	2.397
16	0.141	0.032	0.279	0.790	0.221	0.628	0.534	1.605	2.540
17	0.151	0.035	0.240	0.765	0.184	0.638	0.513	1.653	2.693
18	0.162	0.039	0.204	0.738	0.150	0.641	0.494	1.702	2.854
19	0.173	0.044	0.171	0.709	0.121	0.637	0.475	1.754	3.026
20	0.186	0.049	0.141	0.677	0.096	0.627	0.456	1.806	3.207
21	0.201	0.055	0.115	0.644	0.074	0.611	0.439	1.860	3.400
22	0.218	0.061	0.092	0.609	0.056	0.589	0.422	1.916	3.604
23	0.237	0.068	0.072	0.572	0.041	0.561	0.406	1.974	3.820
24	0.258	0.075	0.055	0.533	0.029	0.529	0.390	2.033	4.049
25	0.282	0.084	0.041	0.493	0.020	0.493	0.375	2.094	4.292
26	0.309	0.094	0.029	0.451	0.013	0.454	0.361	2.157	4.549
27	0.339	0.105	0.020	0.409	0.008	0.413	0.347	2.221	4.822
28	0.371	0.116	0.013	0.366	0.005	0.370	0.333	2.288	5.112
29	0.406	0.129	0.008	0.324	0.003	0.327	0.321	2.357	5.418
30	0.444	0.142	0.005	0.282	0.001	0.284	0.308	2.427	5.743
31	0.475	0.156	0.003	0.242	0.001	0.243	0.296	2.500	6.088
32	0.506	0.171	0.001	0.204	0.000	0.205	0.285	2.575	6.453
33	0.539	0.186	0.001	0.169	0.000	0.170	0.274	2.652	6.841
34	0.575	0.203	0.000	0.138	0.000	0.138	0.264	2.732	7.251
35	0.616	0.220	0.000	0.110	0.000	0.110	0.253	2.814	7.686
36	0.661	0.238	0.000	0.086	0.000	0.086	0.244	2.898	8.147
37	0.713	0.257	0.000	0.065	0.000	0.065	0.234	2.985	8.636
38	0.773	0.276	0.000	0.049	0.000	0.049	0.225	3.075	9.154
39	0.841	0.297	0.000	0.035	0.000	0.035	0.217	3.167	9.704
40	0.918	0.317	0.000	0.025	0.000	0.025	0.208	3.262	10.286
41	1.000	0.339	0.000	0.017	0.000	0.017	0.200	3.360	10.903
42	-	0.361	-	0.011	-	0.011	0.193	3.461	11.557
43	-	0.384	-	0.007	-	0.007	0.185	3.565	12.250
44	-	0.405	-	0.004	-	0.004	0.178	3.671	12.985
45	-	0.425	-	0.003	-	0.003	0.171	3.782	13.765
46	-	0.444	-	0.002	-	0.002	0.165	3.895	14.590
47	-	0.464	-	0.001	-	0.001	0.158	4.012	15.466
48	-	0.482	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.495	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.500	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	1.000	-	0.000	-	0.000	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	22		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/8/2007		
(15)	**DATE OF FILING**	5/11/2007		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	70	M	
(17)	**CLAIMANT 2 (y)**	68	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)	APV FOR CLAIMANT 2	27.60	17.45
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.14	8.10
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	18.97	10.29
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	264,236	173,538
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	91,648	68,903

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.064	0.013	0.941	0.988	0.930	0.070	0.962	1.030	1.060
2	0.069	0.014	0.880	0.976	0.859	0.138	0.925	1.061	1.124
3	0.074	0.015	0.820	0.962	0.789	0.204	0.889	1.093	1.191
4	0.080	0.017	0.759	0.948	0.720	0.268	0.855	1.126	1.262
5	0.086	0.018	0.699	0.932	0.652	0.328	0.822	1.159	1.338
6	0.094	0.020	0.639	0.915	0.585	0.385	0.790	1.194	1.419
7	0.102	0.023	0.579	0.896	0.519	0.437	0.760	1.230	1.504
8	0.111	0.025	0.520	0.876	0.455	0.485	0.731	1.267	1.594
9	0.121	0.028	0.462	0.854	0.394	0.527	0.703	1.305	1.689
10	0.131	0.032	0.406	0.830	0.337	0.562	0.676	1.344	1.791
11	0.141	0.035	0.353	0.803	0.284	0.589	0.650	1.384	1.898
12	0.151	0.039	0.303	0.775	0.235	0.608	0.625	1.426	2.012
13	0.162	0.044	0.257	0.744	0.192	0.619	0.601	1.469	2.133
14	0.173	0.049	0.216	0.712	0.154	0.620	0.577	1.513	2.261
15	0.186	0.055	0.178	0.677	0.121	0.614	0.555	1.558	2.397
16	0.201	0.061	0.145	0.640	0.093	0.599	0.534	1.605	2.540
17	0.218	0.068	0.116	0.601	0.070	0.577	0.513	1.653	2.693
18	0.237	0.075	0.091	0.560	0.051	0.549	0.494	1.702	2.854
19	0.258	0.084	0.069	0.518	0.036	0.515	0.475	1.754	3.026
20	0.282	0.094	0.051	0.474	0.024	0.477	0.456	1.806	3.207
21	0.309	0.105	0.037	0.430	0.016	0.435	0.439	1.860	3.400
22	0.339	0.116	0.025	0.385	0.010	0.391	0.422	1.916	3.604
23	0.371	0.129	0.017	0.340	0.006	0.345	0.406	1.974	3.820
24	0.406	0.142	0.011	0.296	0.003	0.301	0.390	2.033	4.049
25	0.444	0.156	0.006	0.254	0.002	0.257	0.375	2.094	4.292
26	0.475	0.171	0.003	0.215	0.001	0.217	0.361	2.157	4.549
27	0.506	0.186	0.002	0.178	0.000	0.179	0.347	2.221	4.822
28	0.539	0.203	0.001	0.145	0.000	0.145	0.333	2.288	5.112
29	0.575	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.616	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.661	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.713	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.773	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	0.841	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	0.918	0.339	0.000	0.018	0.000	0.018	0.253	2.814	7.686
36	1.000	0.361	0.000	0.012	0.000	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
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89	-	-	-	-	-	-	0.030	13.884	178.740
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99	-	-	-	-	-	-	0.021	18.659	320.096
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102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
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117	-	-	-	-	-	-	0.010	31.765	913.663
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	23		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	10/30/2007		
(15)	**DATE OF FILING**	10/30/2007		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	73	M	
(17)	**CLAIMANT 2 (y)**	71	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.75	7.84
(19)	APV FOR CLAIMANT 2	23.35	15.53
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.43	6.96
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	16.24	9.44
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	223,332	153,794
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	11.698	9.170
(29)	APV OF MEDICAL BENEFIT	74,401	58,319

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.074	0.015	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.080	0.017	0.926	0.985	0.912	0.087	0.962	1.030	1.060
2	0.086	0.018	0.853	0.969	0.826	0.169	0.925	1.061	1.124
3	0.094	0.020	0.779	0.951	0.741	0.248	0.889	1.093	1.191
4	0.102	0.023	0.706	0.932	0.658	0.322	0.855	1.126	1.262
5	0.111	0.025	0.634	0.910	0.577	0.390	0.822	1.159	1.338
6	0.121	0.028	0.563	0.887	0.500	0.451	0.790	1.194	1.419
7	0.131	0.032	0.495	0.862	0.427	0.504	0.760	1.230	1.504
8	0.141	0.035	0.430	0.835	0.359	0.547	0.731	1.267	1.594
9	0.151	0.039	0.370	0.805	0.298	0.580	0.703	1.305	1.689
10	0.162	0.044	0.314	0.774	0.243	0.602	0.676	1.344	1.791
11	0.173	0.049	0.263	0.740	0.195	0.614	0.650	1.384	1.898
12	0.186	0.055	0.217	0.703	0.153	0.615	0.625	1.426	2.012
13	0.201	0.061	0.177	0.665	0.118	0.606	0.601	1.469	2.133
14	0.218	0.068	0.141	0.624	0.088	0.589	0.577	1.513	2.261
15	0.237	0.075	0.111	0.582	0.064	0.564	0.555	1.558	2.397
16	0.258	0.084	0.084	0.538	0.045	0.532	0.534	1.605	2.540
17	0.282	0.094	0.063	0.493	0.031	0.494	0.513	1.653	2.693
18	0.309	0.105	0.045	0.447	0.020	0.451	0.494	1.702	2.854
19	0.339	0.116	0.031	0.400	0.012	0.406	0.475	1.754	3.026
20	0.371	0.129	0.021	0.353	0.007	0.359	0.456	1.806	3.207
21	0.406	0.142	0.013	0.308	0.004	0.313	0.439	1.860	3.400
22	0.444	0.156	0.008	0.264	0.002	0.268	0.422	1.916	3.604
23	0.475	0.171	0.004	0.223	0.001	0.225	0.406	1.974	3.820
24	0.506	0.186	0.002	0.185	0.000	0.186	0.390	2.033	4.049
25	0.539	0.203	0.001	0.150	0.000	0.151	0.375	2.094	4.292
26	0.575	0.220	0.001	0.120	0.000	0.120	0.361	2.157	4.549
27	0.616	0.238	0.000	0.094	0.000	0.094	0.347	2.221	4.822
28	0.661	0.257	0.000	0.071	0.000	0.071	0.333	2.288	5.112
29	0.713	0.276	0.000	0.053	0.000	0.053	0.321	2.357	5.418
30	0.773	0.297	0.000	0.038	0.000	0.038	0.308	2.427	5.743
31	0.841	0.317	0.000	0.027	0.000	0.027	0.296	2.500	6.088
32	0.918	0.339	0.000	0.018	0.000	0.018	0.285	2.575	6.453
33	1.000	0.361	0.000	0.012	0.000	0.012	0.274	2.652	6.841
34	-	0.384	-	0.008	-	0.008	0.264	2.732	7.251
35	-	0.405	-	0.005	-	0.005	0.253	2.814	7.686
36	-	0.425	-	0.003	-	0.003	0.244	2.898	8.147
37	-	0.444	-	0.002	-	0.002	0.234	2.985	8.636
38	-	0.464	-	0.001	-	0.001	0.225	3.075	9.154
39	-	0.482	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.495	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	1.000	-	0.000	-	0.000	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	24		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/1/2009		
(15)	**DATE OF FILING**	4/7/2009		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	75	M	
(17)	**CLAIMANT 2 (y)**	73	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.62	7.09
(19)	APV FOR CLAIMANT 2	20.75	14.26
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.40	6.25
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	14.57	8.86
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	198,513	140,930
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.143	8.159
(29)	APV OF MEDICAL BENEFIT	64,512	51,889

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.086	0.018	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	0.020	0.914	0.982	0.897	0.101	0.962	1.030	1.060
2	0.102	0.023	0.828	0.962	0.796	0.197	0.925	1.061	1.124
3	0.111	0.025	0.743	0.940	0.699	0.286	0.889	1.093	1.191
4	0.121	0.028	0.661	0.916	0.605	0.366	0.855	1.126	1.262
5	0.131	0.032	0.581	0.890	0.517	0.437	0.822	1.159	1.338
6	0.141	0.035	0.505	0.862	0.435	0.497	0.790	1.194	1.419
7	0.151	0.039	0.434	0.831	0.361	0.544	0.760	1.230	1.504
8	0.162	0.044	0.368	0.799	0.294	0.579	0.731	1.267	1.594
9	0.173	0.049	0.309	0.763	0.236	0.601	0.703	1.305	1.689
10	0.186	0.055	0.255	0.726	0.185	0.611	0.676	1.344	1.791
11	0.201	0.061	0.208	0.686	0.142	0.609	0.650	1.384	1.898
12	0.218	0.068	0.166	0.644	0.107	0.596	0.625	1.426	2.012
13	0.237	0.075	0.130	0.601	0.078	0.575	0.601	1.469	2.133
14	0.258	0.084	0.099	0.555	0.055	0.544	0.577	1.513	2.261
15	0.282	0.094	0.073	0.509	0.037	0.507	0.555	1.558	2.397
16	0.309	0.105	0.053	0.461	0.024	0.465	0.534	1.605	2.540
17	0.339	0.116	0.036	0.413	0.015	0.419	0.513	1.653	2.693
18	0.371	0.129	0.024	0.365	0.009	0.371	0.494	1.702	2.854
19	0.406	0.142	0.015	0.318	0.005	0.323	0.475	1.754	3.026
20	0.444	0.156	0.009	0.273	0.002	0.277	0.456	1.806	3.207
21	0.475	0.171	0.005	0.230	0.001	0.233	0.439	1.860	3.400
22	0.506	0.186	0.003	0.191	0.001	0.193	0.422	1.916	3.604
23	0.539	0.203	0.001	0.155	0.000	0.156	0.406	1.974	3.820
24	0.575	0.220	0.001	0.124	0.000	0.124	0.390	2.033	4.049
25	0.616	0.238	0.000	0.097	0.000	0.097	0.375	2.094	4.292
26	0.661	0.257	0.000	0.074	0.000	0.074	0.361	2.157	4.549
27	0.713	0.276	0.000	0.055	0.000	0.055	0.347	2.221	4.822
28	0.773	0.297	0.000	0.040	0.000	0.040	0.333	2.288	5.112
29	0.841	0.317	0.000	0.028	0.000	0.028	0.321	2.357	5.418
30	0.918	0.339	0.000	0.019	0.000	0.019	0.308	2.427	5.743
31	1.000	0.361	0.000	0.013	0.000	0.013	0.296	2.500	6.088
32	-	0.384	-	0.008	-	0.008	0.285	2.575	6.453
33	-	0.405	-	0.005	-	0.005	0.274	2.652	6.841
34	-	0.425	-	0.003	-	0.003	0.264	2.732	7.251
35	-	0.444	-	0.002	-	0.002	0.253	2.814	7.686
36	-	0.464	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.482	-	0.001	-	0.001	0.234	2.985	8.636
38	-	0.495	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	1.000	-	0.000	-	0.000	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	25	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	4/9/2009	
(15)	**DATE OF FILING**	4/15/2009	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	71	M
(17)	**CLAIMANT 2 (y)**	78	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.98	8.63
(19)	APV FOR CLAIMANT 2	15.18	11.26
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.93	6.63
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	10.31	6.65
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	171,659	128,240
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	13.450	10.258
(29)	APV OF MEDICAL BENEFIT	85,545	65,241

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.064	0.032	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.069	0.035	0.936	0.968	0.906	0.092	0.962	1.030	1.060
2	0.074	0.039	0.872	0.934	0.814	0.177	0.925	1.061	1.124
3	0.080	0.044	0.807	0.897	0.724	0.256	0.889	1.093	1.191
4	0.086	0.049	0.743	0.858	0.638	0.326	0.855	1.126	1.262
5	0.094	0.055	0.679	0.816	0.554	0.387	0.822	1.159	1.338
6	0.102	0.061	0.615	0.771	0.474	0.437	0.790	1.194	1.419
7	0.111	0.068	0.553	0.724	0.400	0.476	0.760	1.230	1.504
8	0.121	0.075	0.491	0.675	0.331	0.503	0.731	1.267	1.594
9	0.131	0.084	0.432	0.624	0.269	0.517	0.703	1.305	1.689
10	0.141	0.094	0.375	0.572	0.214	0.518	0.676	1.344	1.791
11	0.151	0.105	0.322	0.518	0.167	0.506	0.650	1.384	1.898
12	0.162	0.116	0.274	0.464	0.127	0.484	0.625	1.426	2.012
13	0.173	0.129	0.229	0.410	0.094	0.451	0.601	1.469	2.133
14	0.186	0.142	0.190	0.357	0.068	0.411	0.577	1.513	2.261
15	0.201	0.156	0.154	0.306	0.047	0.366	0.555	1.558	2.397
16	0.218	0.171	0.123	0.259	0.032	0.318	0.534	1.605	2.540
17	0.237	0.186	0.096	0.214	0.021	0.270	0.513	1.653	2.693
18	0.258	0.203	0.074	0.175	0.013	0.222	0.494	1.702	2.854
19	0.282	0.220	0.055	0.139	0.008	0.179	0.475	1.754	3.026
20	0.309	0.238	0.039	0.109	0.004	0.139	0.456	1.806	3.207
21	0.339	0.257	0.027	0.083	0.002	0.105	0.439	1.860	3.400
22	0.371	0.276	0.018	0.062	0.001	0.077	0.422	1.916	3.604
23	0.406	0.297	0.011	0.045	0.001	0.055	0.406	1.974	3.820
24	0.444	0.317	0.007	0.031	0.000	0.038	0.390	2.033	4.049
25	0.475	0.339	0.004	0.021	0.000	0.025	0.375	2.094	4.292
26	0.506	0.361	0.002	0.014	0.000	0.016	0.361	2.157	4.549
27	0.539	0.384	0.001	0.009	0.000	0.010	0.347	2.221	4.822
28	0.575	0.405	0.000	0.006	0.000	0.006	0.333	2.288	5.112
29	0.616	0.425	0.000	0.003	0.000	0.004	0.321	2.357	5.418
30	0.661	0.444	0.000	0.002	0.000	0.002	0.308	2.427	5.743
31	0.713	0.464	0.000	0.001	0.000	0.001	0.296	2.500	6.088
32	0.773	0.482	0.000	0.001	0.000	0.001	0.285	2.575	6.453
33	0.841	0.495	0.000	0.000	0.000	0.000	0.274	2.652	6.841
34	0.918	0.500	0.000	0.000	0.000	0.000	0.264	2.732	7.251
35	1.000	0.500	0.000	0.000	0.000	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	1.000	-	0.000	-	0.000	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
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(17) PROVIDED BY BWC
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
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(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	26	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	12/28/2009	
(15)	**DATE OF FILING**	1/1/2010	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	65	M
(17)	**CLAIMANT 2 (y)**	52	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.56	11.34
(19)	APV FOR CLAIMANT 2	60.51	28.36
(20)	APV FOR BOTH CLAIMANTS ALIVE	14.96	11.02
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	46.15	17.66
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	530,376	264,354
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	20.432	14.212
(29)	APV OF MEDICAL BENEFIT	129,945	90,387

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.037	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.041	0.002	0.963	0.998	0.962	0.038	0.962	1.030	1.060
2	0.046	0.002	0.924	0.996	0.920	0.079	0.925	1.061	1.124
3	0.050	0.002	0.882	0.994	0.877	0.123	0.889	1.093	1.191
4	0.055	0.003	0.838	0.992	0.831	0.168	0.855	1.126	1.262
5	0.059	0.003	0.792	0.989	0.783	0.215	0.822	1.159	1.338
6	0.064	0.003	0.745	0.987	0.735	0.262	0.790	1.194	1.419
7	0.069	0.004	0.697	0.983	0.685	0.310	0.760	1.230	1.504
8	0.074	0.004	0.649	0.979	0.636	0.357	0.731	1.267	1.594
9	0.080	0.005	0.601	0.975	0.586	0.404	0.703	1.305	1.689
10	0.086	0.006	0.553	0.970	0.537	0.450	0.676	1.344	1.791
11	0.094	0.007	0.506	0.964	0.488	0.495	0.650	1.384	1.898
12	0.102	0.008	0.458	0.958	0.439	0.538	0.625	1.426	2.012
13	0.111	0.009	0.411	0.951	0.391	0.580	0.601	1.469	2.133
14	0.121	0.010	0.366	0.943	0.345	0.619	0.577	1.513	2.261
15	0.131	0.011	0.321	0.933	0.300	0.655	0.555	1.558	2.397
16	0.141	0.012	0.279	0.923	0.258	0.687	0.534	1.605	2.540
17	0.151	0.013	0.240	0.912	0.219	0.714	0.513	1.653	2.693
18	0.162	0.014	0.204	0.901	0.184	0.738	0.494	1.702	2.854
19	0.173	0.015	0.171	0.889	0.152	0.756	0.475	1.754	3.026
20	0.186	0.017	0.141	0.875	0.124	0.769	0.456	1.806	3.207
21	0.201	0.018	0.115	0.861	0.099	0.778	0.439	1.860	3.400
22	0.218	0.020	0.092	0.845	0.078	0.782	0.422	1.916	3.604
23	0.237	0.023	0.072	0.828	0.059	0.781	0.406	1.974	3.820
24	0.258	0.025	0.055	0.809	0.044	0.775	0.390	2.033	4.049
25	0.282	0.028	0.041	0.789	0.032	0.765	0.375	2.094	4.292
26	0.309	0.032	0.029	0.766	0.022	0.751	0.361	2.157	4.549
27	0.339	0.035	0.020	0.742	0.015	0.732	0.347	2.221	4.822
28	0.371	0.039	0.013	0.716	0.010	0.710	0.333	2.288	5.112
29	0.406	0.044	0.008	0.687	0.006	0.684	0.321	2.357	5.418
30	0.444	0.049	0.005	0.657	0.003	0.656	0.308	2.427	5.743
31	0.475	0.055	0.003	0.625	0.002	0.624	0.296	2.500	6.088
32	0.506	0.061	0.001	0.591	0.001	0.590	0.285	2.575	6.453
33	0.539	0.068	0.001	0.555	0.000	0.555	0.274	2.652	6.841
34	0.575	0.075	0.000	0.517	0.000	0.517	0.264	2.732	7.251
35	0.616	0.084	0.000	0.478	0.000	0.478	0.253	2.814	7.686
36	0.661	0.094	0.000	0.438	0.000	0.438	0.244	2.898	8.147
37	0.713	0.105	0.000	0.397	0.000	0.397	0.234	2.985	8.636
38	0.773	0.116	0.000	0.355	0.000	0.355	0.225	3.075	9.154
39	0.841	0.129	0.000	0.314	0.000	0.314	0.217	3.167	9.704
40	0.918	0.142	0.000	0.274	0.000	0.274	0.208	3.262	10.286
41	1.000	0.156	0.000	0.235	0.000	0.235	0.200	3.360	10.903
42	-	0.171	-	0.198	-	0.198	0.193	3.461	11.557
43	-	0.186	-	0.164	-	0.164	0.185	3.565	12.250
44	-	0.203	-	0.134	-	0.134	0.178	3.671	12.985
45	-	0.220	-	0.107	-	0.107	0.171	3.782	13.765
46	-	0.238	-	0.083	-	0.083	0.165	3.895	14.590
47	-	0.257	-	0.063	-	0.063	0.158	4.012	15.466
48	-	0.276	-	0.047	-	0.047	0.152	4.132	16.394
49	-	0.297	-	0.034	-	0.034	0.146	4.256	17.378
50	-	0.317	-	0.024	-	0.024	0.141	4.384	18.420
51	-	0.339	-	0.016	-	0.016	0.135	4.515	19.525
52	-	0.361	-	0.011	-	0.011	0.130	4.651	20.697
53	-	0.384	-	0.007	-	0.007	0.125	4.790	21.939
54	-	0.405	-	0.004	-	0.004	0.120	4.934	23.255
55	-	0.425	-	0.003	-	0.003	0.116	5.082	24.650
56	-	0.444	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.464	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.482	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.495	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	1.000	-	0.000	-	0.000	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
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(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	27		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/1/1986		
(15)	**DATE OF FILING**	11/5/1996		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	72	M	
(17)	**CLAIMANT 2 (y)**	59	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.36	8.24
(19)	APV FOR CLAIMANT 2	43.74	23.50
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.87	7.92
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	34.37	15.89
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	380,164	214,754
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	12.549	9.704
(29)	APV OF MEDICAL BENEFIT	79,809	61,718

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.069	0.004	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.074	0.004	0.931	0.996	0.928	0.072	0.962	1.030	1.060
2	0.080	0.005	0.863	0.992	0.855	0.143	0.925	1.061	1.124
3	0.086	0.006	0.794	0.987	0.783	0.214	0.889	1.093	1.191
4	0.094	0.007	0.726	0.981	0.712	0.283	0.855	1.126	1.262
5	0.102	0.008	0.658	0.974	0.641	0.351	0.822	1.159	1.338
6	0.111	0.009	0.590	0.967	0.571	0.416	0.790	1.194	1.419
7	0.121	0.010	0.525	0.959	0.503	0.477	0.760	1.230	1.504
8	0.131	0.011	0.461	0.949	0.438	0.535	0.731	1.267	1.594
9	0.141	0.012	0.401	0.939	0.376	0.587	0.703	1.305	1.689
10	0.151	0.013	0.344	0.928	0.320	0.633	0.676	1.344	1.791
11	0.162	0.014	0.292	0.916	0.268	0.673	0.650	1.384	1.898
12	0.173	0.015	0.245	0.904	0.221	0.706	0.625	1.426	2.012
13	0.186	0.017	0.203	0.890	0.180	0.732	0.601	1.469	2.133
14	0.201	0.018	0.165	0.875	0.144	0.752	0.577	1.513	2.261
15	0.218	0.020	0.132	0.859	0.113	0.765	0.555	1.558	2.397
16	0.237	0.023	0.103	0.842	0.087	0.771	0.534	1.605	2.540
17	0.258	0.025	0.079	0.823	0.065	0.772	0.513	1.653	2.693
18	0.282	0.028	0.058	0.802	0.047	0.767	0.494	1.702	2.854
19	0.309	0.032	0.042	0.779	0.033	0.756	0.475	1.754	3.026
20	0.339	0.035	0.029	0.754	0.022	0.740	0.456	1.806	3.207
21	0.371	0.039	0.019	0.728	0.014	0.719	0.439	1.860	3.400
22	0.406	0.044	0.012	0.699	0.008	0.694	0.422	1.916	3.604
23	0.444	0.049	0.007	0.668	0.005	0.666	0.406	1.974	3.820
24	0.475	0.055	0.004	0.636	0.003	0.634	0.390	2.033	4.049
25	0.506	0.061	0.002	0.601	0.001	0.600	0.375	2.094	4.292
26	0.539	0.068	0.001	0.564	0.001	0.564	0.361	2.157	4.549
27	0.575	0.075	0.000	0.526	0.000	0.526	0.347	2.221	4.822
28	0.616	0.084	0.000	0.486	0.000	0.486	0.333	2.288	5.112
29	0.661	0.094	0.000	0.445	0.000	0.445	0.321	2.357	5.418
30	0.713	0.105	0.000	0.404	0.000	0.404	0.308	2.427	5.743
31	0.773	0.116	0.000	0.361	0.000	0.361	0.296	2.500	6.088
32	0.841	0.129	0.000	0.319	0.000	0.319	0.285	2.575	6.453
33	0.918	0.142	0.000	0.278	0.000	0.278	0.274	2.652	6.841
34	1.000	0.156	0.000	0.239	0.000	0.239	0.264	2.732	7.251
35	-	0.171	-	0.202	-	0.202	0.253	2.814	7.686
36	-	0.186	-	0.167	-	0.167	0.244	2.898	8.147
37	-	0.203	-	0.136	-	0.136	0.234	2.985	8.636
38	-	0.220	-	0.108	-	0.108	0.225	3.075	9.154
39	-	0.238	-	0.085	-	0.085	0.217	3.167	9.704
40	-	0.257	-	0.065	-	0.065	0.208	3.262	10.286
41	-	0.276	-	0.048	-	0.048	0.200	3.360	10.903
42	-	0.297	-	0.035	-	0.035	0.193	3.461	11.557
43	-	0.317	-	0.024	-	0.024	0.185	3.565	12.250
44	-	0.339	-	0.017	-	0.017	0.178	3.671	12.985
45	-	0.361	-	0.011	-	0.011	0.171	3.782	13.765
46	-	0.384	-	0.007	-	0.007	0.165	3.895	14.590
47	-	0.405	-	0.004	-	0.004	0.158	4.012	15.466
48	-	0.425	-	0.003	-	0.003	0.152	4.132	16.394
49	-	0.444	-	0.001	-	0.001	0.146	4.256	17.378
50	-	0.464	-	0.001	-	0.001	0.141	4.384	18.420
51	-	0.482	-	0.000	-	0.000	0.135	4.515	19.525
52	-	0.495	-	0.000	-	0.000	0.130	4.651	20.697
53	-	0.500	-	0.000	-	0.000	0.125	4.790	21.939
54	-	0.500	-	0.000	-	0.000	0.120	4.934	23.255
55	-	0.500	-	0.000	-	0.000	0.116	5.082	24.650
56	-	0.500	-	0.000	-	0.000	0.111	5.235	26.129
57	-	0.500	-	0.000	-	0.000	0.107	5.392	27.697
58	-	0.500	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.500	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	1.000	-	0.000	-	0.000	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
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73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
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107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
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(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	28		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/1/1998		
(15)	**DATE OF FILING**	6/3/1998		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	78	M	
(17)	**CLAIMANT 2 (y)**	74	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.14	6.05
(19)	APV FOR CLAIMANT 2	19.54	13.64
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.25	5.41
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	14.17	8.88
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	182,109	131,367
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.181	6.818
(29)	APV OF MEDICAL BENEFIT	52,031	43,361

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.111	0.020	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.121	0.023	0.889	0.980	0.871	0.127	0.962	1.030	1.060
2	0.131	0.025	0.781	0.957	0.748	0.243	0.925	1.061	1.124
3	0.141	0.028	0.679	0.933	0.634	0.345	0.889	1.093	1.191
4	0.151	0.032	0.583	0.907	0.529	0.432	0.855	1.126	1.262
5	0.162	0.035	0.495	0.878	0.435	0.504	0.822	1.159	1.338
6	0.173	0.039	0.415	0.847	0.352	0.559	0.790	1.194	1.419
7	0.186	0.044	0.343	0.814	0.279	0.598	0.760	1.230	1.504
8	0.201	0.049	0.279	0.778	0.217	0.623	0.731	1.267	1.594
9	0.218	0.055	0.223	0.740	0.165	0.633	0.703	1.305	1.689
10	0.237	0.061	0.174	0.699	0.122	0.630	0.676	1.344	1.791
11	0.258	0.068	0.133	0.656	0.087	0.615	0.650	1.384	1.898
12	0.282	0.075	0.099	0.612	0.060	0.590	0.625	1.426	2.012
13	0.309	0.084	0.071	0.566	0.040	0.556	0.601	1.469	2.133
14	0.339	0.094	0.049	0.518	0.025	0.516	0.577	1.513	2.261
15	0.371	0.105	0.032	0.470	0.015	0.472	0.555	1.558	2.397
16	0.406	0.116	0.020	0.420	0.009	0.424	0.534	1.605	2.540
17	0.444	0.129	0.012	0.372	0.004	0.375	0.513	1.653	2.693
18	0.475	0.142	0.007	0.324	0.002	0.326	0.494	1.702	2.854
19	0.506	0.156	0.004	0.278	0.001	0.279	0.475	1.754	3.026
20	0.539	0.171	0.002	0.234	0.000	0.235	0.456	1.806	3.207
21	0.575	0.186	0.001	0.194	0.000	0.195	0.439	1.860	3.400
22	0.616	0.203	0.000	0.158	0.000	0.158	0.422	1.916	3.604
23	0.661	0.220	0.000	0.126	0.000	0.126	0.406	1.974	3.820
24	0.713	0.238	0.000	0.098	0.000	0.099	0.390	2.033	4.049
25	0.773	0.257	0.000	0.075	0.000	0.075	0.375	2.094	4.292
26	0.841	0.276	0.000	0.056	0.000	0.056	0.361	2.157	4.549
27	0.918	0.297	0.000	0.040	0.000	0.040	0.347	2.221	4.822
28	1.000	0.317	0.000	0.028	0.000	0.028	0.333	2.288	5.112
29	-	0.339	-	0.019	-	0.019	0.321	2.357	5.418
30	-	0.361	-	0.013	-	0.013	0.308	2.427	5.743
31	-	0.384	-	0.008	-	0.008	0.296	2.500	6.088
32	-	0.405	-	0.005	-	0.005	0.285	2.575	6.453
33	-	0.425	-	0.003	-	0.003	0.274	2.652	6.841
34	-	0.444	-	0.002	-	0.002	0.264	2.732	7.251
35	-	0.464	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.482	-	0.001	-	0.001	0.244	2.898	8.147
37	-	0.495	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	1.000	-	0.000	-	0.000	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	29		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/1/1998		
(15)	**DATE OF FILING**	6/16/1998		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	66	M	
(17)	**CLAIMANT 2 (y)**	70	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	14.68	10.84
(19)	APV FOR CLAIMANT 2	24.72	16.17
(20)	APV FOR BOTH CLAIMANTS ALIVE	11.75	9.14
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	15.90	8.73
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	259,156	173,505
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	19.031	13.457
(29)	APV OF MEDICAL BENEFIT	121,034	85,585

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.041	0.014	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.046	0.015	0.959	0.986	0.946	0.054	0.962	1.030	1.060
2	0.050	0.017	0.915	0.972	0.889	0.108	0.925	1.061	1.124
3	0.055	0.018	0.869	0.955	0.831	0.163	0.889	1.093	1.191
4	0.059	0.020	0.822	0.938	0.771	0.218	0.855	1.126	1.262
5	0.064	0.023	0.773	0.919	0.710	0.271	0.822	1.159	1.338
6	0.069	0.025	0.723	0.898	0.650	0.322	0.790	1.194	1.419
7	0.074	0.028	0.674	0.875	0.590	0.370	0.760	1.230	1.504
8	0.080	0.032	0.624	0.850	0.531	0.413	0.731	1.267	1.594
9	0.086	0.035	0.574	0.823	0.473	0.452	0.703	1.305	1.689
10	0.094	0.039	0.525	0.794	0.417	0.485	0.676	1.344	1.791
11	0.102	0.044	0.476	0.763	0.363	0.513	0.650	1.384	1.898
12	0.111	0.049	0.427	0.729	0.312	0.533	0.625	1.426	2.012
13	0.121	0.055	0.380	0.694	0.263	0.547	0.601	1.469	2.133
14	0.131	0.061	0.334	0.656	0.219	0.552	0.577	1.513	2.261
15	0.141	0.068	0.290	0.616	0.179	0.549	0.555	1.558	2.397
16	0.151	0.075	0.249	0.574	0.143	0.537	0.534	1.605	2.540
17	0.162	0.084	0.212	0.531	0.112	0.518	0.513	1.653	2.693
18	0.173	0.094	0.177	0.486	0.086	0.491	0.494	1.702	2.854
19	0.186	0.105	0.147	0.440	0.065	0.458	0.475	1.754	3.026
20	0.201	0.116	0.119	0.394	0.047	0.420	0.456	1.806	3.207
21	0.218	0.129	0.095	0.349	0.033	0.377	0.439	1.860	3.400
22	0.237	0.142	0.074	0.304	0.023	0.333	0.422	1.916	3.604
23	0.258	0.156	0.057	0.261	0.015	0.288	0.406	1.974	3.820
24	0.282	0.171	0.042	0.220	0.009	0.244	0.390	2.033	4.049
25	0.309	0.186	0.030	0.182	0.006	0.202	0.375	2.094	4.292
26	0.339	0.203	0.021	0.148	0.003	0.163	0.361	2.157	4.549
27	0.371	0.220	0.014	0.118	0.002	0.129	0.347	2.221	4.822
28	0.406	0.238	0.009	0.092	0.001	0.099	0.333	2.288	5.112
29	0.444	0.257	0.005	0.070	0.000	0.075	0.321	2.357	5.418
30	0.475	0.276	0.003	0.052	0.000	0.055	0.308	2.427	5.743
31	0.506	0.297	0.002	0.038	0.000	0.039	0.296	2.500	6.088
32	0.539	0.317	0.001	0.027	0.000	0.027	0.285	2.575	6.453
33	0.575	0.339	0.000	0.018	0.000	0.019	0.274	2.652	6.841
34	0.616	0.361	0.000	0.012	0.000	0.012	0.264	2.732	7.251
35	0.661	0.384	0.000	0.008	0.000	0.008	0.253	2.814	7.686
36	0.713	0.405	0.000	0.005	0.000	0.005	0.244	2.898	8.147
37	0.773	0.425	0.000	0.003	0.000	0.003	0.234	2.985	8.636
38	0.841	0.444	0.000	0.002	0.000	0.002	0.225	3.075	9.154
39	0.918	0.464	0.000	0.001	0.000	0.001	0.217	3.167	9.704
40	1.000	0.482	0.000	0.000	0.000	0.000	0.208	3.262	10.286
41	-	0.495	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	1.000	-	0.000	-	0.000	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	30	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	6/1/1979	
(15)	**DATE OF FILING**	8/17/1979	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	96	M
(17)	**CLAIMANT 2 (y)**	94	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.04	1.97
(19)	APV FOR CLAIMANT 2	4.96	4.41
(20)	APV FOR BOTH CLAIMANTS ALIVE	1.74	1.69
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	3.52	2.99
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	47,351	42,786
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.094	2.018
(29)	APV OF MEDICAL BENEFIT	13,316	12,832

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.475	0.171	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.506	0.186	0.525	0.829	0.436	0.483	0.962	1.030	1.060
2	0.539	0.203	0.259	0.675	0.175	0.584	0.925	1.061	1.124
3	0.575	0.220	0.120	0.538	0.064	0.529	0.889	1.093	1.191
4	0.616	0.238	0.051	0.420	0.021	0.428	0.855	1.126	1.262
5	0.661	0.257	0.019	0.320	0.006	0.327	0.822	1.159	1.338
6	0.713	0.276	0.007	0.238	0.002	0.241	0.790	1.194	1.419
7	0.773	0.297	0.002	0.172	0.000	0.173	0.760	1.230	1.504
8	0.841	0.317	0.000	0.121	0.000	0.121	0.731	1.267	1.594
9	0.918	0.339	0.000	0.083	0.000	0.083	0.703	1.305	1.689
10	1.000	0.361	0.000	0.055	0.000	0.055	0.676	1.344	1.791
11	-	0.384	-	0.035	-	0.035	0.650	1.384	1.898
12	-	0.405	-	0.022	-	0.022	0.625	1.426	2.012
13	-	0.425	-	0.013	-	0.013	0.601	1.469	2.133
14	-	0.444	-	0.007	-	0.007	0.577	1.513	2.261
15	-	0.464	-	0.004	-	0.004	0.555	1.558	2.397
16	-	0.482	-	0.002	-	0.002	0.534	1.605	2.540
17	-	0.495	-	0.001	-	0.001	0.513	1.653	2.693
18	-	0.500	-	0.001	-	0.001	0.494	1.702	2.854
19	-	0.500	-	0.000	-	0.000	0.475	1.754	3.026
20	-	0.500	-	0.000	-	0.000	0.456	1.806	3.207
21	-	0.500	-	0.000	-	0.000	0.439	1.860	3.400
22	-	0.500	-	0.000	-	0.000	0.422	1.916	3.604
23	-	0.500	-	0.000	-	0.000	0.406	1.974	3.820
24	-	0.500	-	0.000	-	0.000	0.390	2.033	4.049
25	-	0.500	-	0.000	-	0.000	0.375	2.094	4.292
26	-	1.000	-	0.000	-	0.000	0.361	2.157	4.549
27	-	-	-	-	-	-	0.347	2.221	4.822
28	-	-	-	-	-	-	0.333	2.288	5.112
29	-	-	-	-	-	-	0.321	2.357	5.418
30	-	-	-	-	-	-	0.308	2.427	5.743
31	-	-	-	-	-	-	0.296	2.500	6.088
32	-	-	-	-	-	-	0.285	2.575	6.453
33	-	-	-	-	-	-	0.274	2.652	6.841
34	-	-	-	-	-	-	0.264	2.732	7.251
35	-	-	-	-	-	-	0.253	2.814	7.686
36	-	-	-	-	-	-	0.244	2.898	8.147
37	-	-	-	-	-	-	0.234	2.985	8.636
38	-	-	-	-	-	-	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
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84	-	-	-	-	-	-	0.037	11.976	133.565
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87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
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94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
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103	-	-	-	-	-	-	0.018	21.001	404.114
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105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
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(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	31		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	12/1/1975		
(15)	**DATE OF FILING**	4/18/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	92	M	
(17)	**CLAIMANT 2 (y)**	75	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.71	2.56
(19)	APV FOR CLAIMANT 2	18.37	13.03
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.61	2.48
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	15.86	10.64
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	152,903	110,991
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.825	2.667
(29)	APV OF MEDICAL BENEFIT	17,970	16,960

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.339	0.023	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.371	0.025	0.661	0.977	0.646	0.346	0.962	1.030	1.060
2	0.406	0.028	0.416	0.953	0.396	0.576	0.925	1.061	1.124
3	0.444	0.032	0.247	0.926	0.229	0.715	0.889	1.093	1.191
4	0.475	0.035	0.137	0.896	0.123	0.787	0.855	1.126	1.262
5	0.506	0.039	0.072	0.864	0.062	0.812	0.822	1.159	1.338
6	0.539	0.044	0.036	0.830	0.030	0.807	0.790	1.194	1.419
7	0.575	0.049	0.016	0.794	0.013	0.784	0.760	1.230	1.504
8	0.616	0.055	0.007	0.755	0.005	0.751	0.731	1.267	1.594
9	0.661	0.061	0.003	0.713	0.002	0.712	0.703	1.305	1.689
10	0.713	0.068	0.001	0.670	0.001	0.670	0.676	1.344	1.791
11	0.773	0.075	0.000	0.625	0.000	0.625	0.650	1.384	1.898
12	0.841	0.084	0.000	0.578	0.000	0.578	0.625	1.426	2.012
13	0.918	0.094	0.000	0.529	0.000	0.529	0.601	1.469	2.133
14	1.000	0.105	0.000	0.479	0.000	0.479	0.577	1.513	2.261
15	-	0.116	-	0.429	-	0.429	0.555	1.558	2.397
16	-	0.129	-	0.379	-	0.379	0.534	1.605	2.540
17	-	0.142	-	0.330	-	0.330	0.513	1.653	2.693
18	-	0.156	-	0.284	-	0.284	0.494	1.702	2.854
19	-	0.171	-	0.239	-	0.239	0.475	1.754	3.026
20	-	0.186	-	0.199	-	0.199	0.456	1.806	3.207
21	-	0.203	-	0.162	-	0.162	0.439	1.860	3.400
22	-	0.220	-	0.129	-	0.129	0.422	1.916	3.604
23	-	0.238	-	0.101	-	0.101	0.406	1.974	3.820
24	-	0.257	-	0.077	-	0.077	0.390	2.033	4.049
25	-	0.276	-	0.057	-	0.057	0.375	2.094	4.292
26	-	0.297	-	0.041	-	0.041	0.361	2.157	4.549
27	-	0.317	-	0.029	-	0.029	0.347	2.221	4.822
28	-	0.339	-	0.020	-	0.020	0.333	2.288	5.112
29	-	0.361	-	0.013	-	0.013	0.321	2.357	5.418
30	-	0.384	-	0.008	-	0.008	0.308	2.427	5.743
31	-	0.405	-	0.005	-	0.005	0.296	2.500	6.088
32	-	0.425	-	0.003	-	0.003	0.285	2.575	6.453
33	-	0.444	-	0.002	-	0.002	0.274	2.652	6.841
34	-	0.464	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.482	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.495	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	1.000	-	0.000	-	0.000	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	32	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	4/4/1975	
(15)	**DATE OF FILING**	6/24/1980	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	82	M
(17)	**CLAIMANT 2 (y)**	77	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.57	4.89
(19)	APV FOR CLAIMANT 2	16.19	11.84
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.89	4.37
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	11.98	8.00
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	149,358	112,486
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	6.181	5.371
(29)	APV OF MEDICAL BENEFIT	39,313	34,161

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.151	0.028	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.162	0.032	0.849	0.972	0.825	0.171	0.962	1.030	1.060
2	0.173	0.035	0.712	0.941	0.669	0.314	0.925	1.061	1.124
3	0.186	0.039	0.588	0.908	0.534	0.428	0.889	1.093	1.191
4	0.201	0.044	0.478	0.872	0.417	0.516	0.855	1.126	1.262
5	0.218	0.049	0.382	0.833	0.319	0.579	0.822	1.159	1.338
6	0.237	0.055	0.299	0.793	0.237	0.618	0.790	1.194	1.419
7	0.258	0.061	0.228	0.749	0.171	0.635	0.760	1.230	1.504
8	0.282	0.068	0.169	0.703	0.119	0.635	0.731	1.267	1.594
9	0.309	0.075	0.121	0.656	0.080	0.618	0.703	1.305	1.689
10	0.339	0.084	0.084	0.606	0.051	0.588	0.676	1.344	1.791
11	0.371	0.094	0.055	0.555	0.031	0.549	0.650	1.384	1.898
12	0.406	0.105	0.035	0.503	0.018	0.503	0.625	1.426	2.012
13	0.444	0.116	0.021	0.451	0.009	0.453	0.601	1.469	2.133
14	0.475	0.129	0.012	0.398	0.005	0.401	0.577	1.513	2.261
15	0.506	0.142	0.006	0.347	0.002	0.349	0.555	1.558	2.397
16	0.539	0.156	0.003	0.298	0.001	0.299	0.534	1.605	2.540
17	0.575	0.171	0.001	0.251	0.000	0.252	0.513	1.653	2.693
18	0.616	0.186	0.001	0.208	0.000	0.209	0.494	1.702	2.854
19	0.661	0.203	0.000	0.170	0.000	0.170	0.475	1.754	3.026
20	0.713	0.220	0.000	0.135	0.000	0.135	0.456	1.806	3.207
21	0.773	0.238	0.000	0.106	0.000	0.106	0.439	1.860	3.400
22	0.841	0.257	0.000	0.080	0.000	0.080	0.422	1.916	3.604
23	0.918	0.276	0.000	0.060	0.000	0.060	0.406	1.974	3.820
24	1.000	0.297	0.000	0.043	0.000	0.043	0.390	2.033	4.049
25	-	0.317	-	0.030	-	0.030	0.375	2.094	4.292
26	-	0.339	-	0.021	-	0.021	0.361	2.157	4.549
27	-	0.361	-	0.014	-	0.014	0.347	2.221	4.822
28	-	0.384	-	0.009	-	0.009	0.333	2.288	5.112
29	-	0.405	-	0.005	-	0.005	0.321	2.357	5.418
30	-	0.425	-	0.003	-	0.003	0.308	2.427	5.743
31	-	0.444	-	0.002	-	0.002	0.296	2.500	6.088
32	-	0.464	-	0.001	-	0.001	0.285	2.575	6.453
33	-	0.482	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.495	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	1.000	-	0.000	-	0.000	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	33		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	11/14/1979		
(15)	**DATE OF FILING**	7/28/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	M	
(17)	**CLAIMANT 2 (y)**	71	F	
		NOMINAL		**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS			
(18)	APV FOR CLAIMANT 1	7.60		6.38
(19)	APV FOR CLAIMANT 2	23.35		15.53
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.84		5.84
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	17.27		10.24
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597		11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732		7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	212,875		146,847
	MEDICAL PAYMENTS			
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60		625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20		7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360		6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.786		7.239
(29)	APV OF MEDICAL BENEFIT	55,876		46,038

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.102	0.015	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.111	0.017	0.898	0.985	0.884	0.114	0.962	1.030	1.060
2	0.121	0.018	0.798	0.969	0.773	0.221	0.925	1.061	1.124
3	0.131	0.020	0.701	0.951	0.667	0.318	0.889	1.093	1.191
4	0.141	0.023	0.610	0.932	0.568	0.405	0.855	1.126	1.262
5	0.151	0.025	0.524	0.910	0.477	0.480	0.822	1.159	1.338
6	0.162	0.028	0.445	0.887	0.395	0.543	0.790	1.194	1.419
7	0.173	0.032	0.373	0.862	0.321	0.592	0.760	1.230	1.504
8	0.186	0.035	0.308	0.835	0.257	0.629	0.731	1.267	1.594
9	0.201	0.039	0.251	0.805	0.202	0.652	0.703	1.305	1.689
10	0.218	0.044	0.200	0.774	0.155	0.664	0.676	1.344	1.791
11	0.237	0.049	0.157	0.740	0.116	0.665	0.650	1.384	1.898
12	0.258	0.055	0.119	0.703	0.084	0.655	0.625	1.426	2.012
13	0.282	0.061	0.089	0.665	0.059	0.636	0.601	1.469	2.133
14	0.309	0.068	0.064	0.624	0.040	0.608	0.577	1.513	2.261
15	0.339	0.075	0.044	0.582	0.026	0.575	0.555	1.558	2.397
16	0.371	0.084	0.029	0.538	0.016	0.536	0.534	1.605	2.540
17	0.406	0.094	0.018	0.493	0.009	0.493	0.513	1.653	2.693
18	0.444	0.105	0.011	0.447	0.005	0.448	0.494	1.702	2.854
19	0.475	0.116	0.006	0.400	0.002	0.401	0.475	1.754	3.026
20	0.506	0.129	0.003	0.353	0.001	0.354	0.456	1.806	3.207
21	0.539	0.142	0.002	0.308	0.000	0.309	0.439	1.860	3.400
22	0.575	0.156	0.001	0.264	0.000	0.265	0.422	1.916	3.604
23	0.616	0.171	0.000	0.223	0.000	0.223	0.406	1.974	3.820
24	0.661	0.186	0.000	0.185	0.000	0.185	0.390	2.033	4.049
25	0.713	0.203	0.000	0.150	0.000	0.151	0.375	2.094	4.292
26	0.773	0.220	0.000	0.120	0.000	0.120	0.361	2.157	4.549
27	0.841	0.238	0.000	0.094	0.000	0.094	0.347	2.221	4.822
28	0.918	0.257	0.000	0.071	0.000	0.071	0.333	2.288	5.112
29	1.000	0.276	0.000	0.053	0.000	0.053	0.321	2.357	5.418
30	-	0.297	-	0.038	-	0.038	0.308	2.427	5.743
31	-	0.317	-	0.027	-	0.027	0.296	2.500	6.088
32	-	0.339	-	0.018	-	0.018	0.285	2.575	6.453
33	-	0.361	-	0.012	-	0.012	0.274	2.652	6.841
34	-	0.384	-	0.008	-	0.008	0.264	2.732	7.251
35	-	0.405	-	0.005	-	0.005	0.253	2.814	7.686
36	-	0.425	-	0.003	-	0.003	0.244	2.898	8.147
37	-	0.444	-	0.002	-	0.002	0.234	2.985	8.636
38	-	0.464	-	0.001	-	0.001	0.225	3.075	9.154
39	-	0.482	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.495	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	1.000	-	0.000	-	0.000	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	34	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	10/1/1976	
(15)	**DATE OF FILING**	10/2/1976	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	78	M
(17)	**CLAIMANT 2 (y)**	77	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.14	6.05
(19)	APV FOR CLAIMANT 2	16.19	11.84
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.97	5.19
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	11.40	7.50
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	157,358	118,252
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	8.181	6.818
(29)	APV OF MEDICAL BENEFIT	52,031	43,361

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.111	0.028	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.121	0.032	0.889	0.972	0.863	0.133	0.962	1.030	1.060
2	0.131	0.035	0.781	0.941	0.735	0.252	0.925	1.061	1.124
3	0.141	0.039	0.679	0.908	0.616	0.354	0.889	1.093	1.191
4	0.151	0.044	0.583	0.872	0.509	0.438	0.855	1.126	1.262
5	0.162	0.049	0.495	0.833	0.413	0.503	0.822	1.159	1.338
6	0.173	0.055	0.415	0.793	0.329	0.550	0.790	1.194	1.419
7	0.186	0.061	0.343	0.749	0.257	0.578	0.760	1.230	1.504
8	0.201	0.068	0.279	0.703	0.196	0.590	0.731	1.267	1.594
9	0.218	0.075	0.223	0.656	0.146	0.586	0.703	1.305	1.689
10	0.237	0.084	0.174	0.606	0.106	0.569	0.676	1.344	1.791
11	0.258	0.094	0.133	0.555	0.074	0.541	0.650	1.384	1.898
12	0.282	0.105	0.099	0.503	0.050	0.503	0.625	1.426	2.012
13	0.309	0.116	0.071	0.451	0.032	0.458	0.601	1.469	2.133
14	0.339	0.129	0.049	0.398	0.019	0.408	0.577	1.513	2.261
15	0.371	0.142	0.032	0.347	0.011	0.357	0.555	1.558	2.397
16	0.406	0.156	0.020	0.298	0.006	0.306	0.534	1.605	2.540
17	0.444	0.171	0.012	0.251	0.003	0.257	0.513	1.653	2.693
18	0.475	0.186	0.007	0.208	0.001	0.212	0.494	1.702	2.854
19	0.506	0.203	0.004	0.170	0.001	0.172	0.475	1.754	3.026
20	0.539	0.220	0.002	0.135	0.000	0.137	0.456	1.806	3.207
21	0.575	0.238	0.001	0.106	0.000	0.106	0.439	1.860	3.400
22	0.616	0.257	0.000	0.080	0.000	0.081	0.422	1.916	3.604
23	0.661	0.276	0.000	0.060	0.000	0.060	0.406	1.974	3.820
24	0.713	0.297	0.000	0.043	0.000	0.043	0.390	2.033	4.049
25	0.773	0.317	0.000	0.030	0.000	0.030	0.375	2.094	4.292
26	0.841	0.339	0.000	0.021	0.000	0.021	0.361	2.157	4.549
27	0.918	0.361	0.000	0.014	0.000	0.014	0.347	2.221	4.822
28	1.000	0.384	0.000	0.009	0.000	0.009	0.333	2.288	5.112
29	-	0.405	-	0.005	-	0.005	0.321	2.357	5.418
30	-	0.425	-	0.003	-	0.003	0.308	2.427	5.743
31	-	0.444	-	0.002	-	0.002	0.296	2.500	6.088
32	-	0.464	-	0.001	-	0.001	0.285	2.575	6.453
33	-	0.482	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.495	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	1.000	-	0.000	-	0.000	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
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(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	35		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	2/1/1987		
(15)	**DATE OF FILING**	3/2/1987		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	82	M	
(17)	**CLAIMANT 2 (y)**	82	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.57	4.89
(19)	APV FOR CLAIMANT 2	11.61	9.11
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.50	4.06
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	8.18	5.89
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	115,464	92,574
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	6.181	5.371
(29)	APV OF MEDICAL BENEFIT	39,313	34,161

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.151	0.049	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.162	0.055	0.849	0.951	0.807	0.185	0.962	1.030	1.060
2	0.173	0.061	0.712	0.899	0.639	0.331	0.925	1.061	1.124
3	0.186	0.068	0.588	0.844	0.496	0.439	0.889	1.093	1.191
4	0.201	0.075	0.478	0.787	0.376	0.512	0.855	1.126	1.262
5	0.218	0.084	0.382	0.727	0.278	0.554	0.822	1.159	1.338
6	0.237	0.094	0.299	0.666	0.199	0.567	0.790	1.194	1.419
7	0.258	0.105	0.228	0.604	0.138	0.556	0.760	1.230	1.504
8	0.282	0.116	0.169	0.541	0.091	0.527	0.731	1.267	1.594
9	0.309	0.129	0.121	0.478	0.058	0.483	0.703	1.305	1.689
10	0.339	0.142	0.084	0.416	0.035	0.430	0.676	1.344	1.791
11	0.371	0.156	0.055	0.357	0.020	0.373	0.650	1.384	1.898
12	0.406	0.171	0.035	0.301	0.011	0.315	0.625	1.426	2.012
13	0.444	0.186	0.021	0.250	0.005	0.260	0.601	1.469	2.133
14	0.475	0.203	0.012	0.203	0.002	0.210	0.577	1.513	2.261
15	0.506	0.220	0.006	0.162	0.001	0.166	0.555	1.558	2.397
16	0.539	0.238	0.003	0.127	0.000	0.129	0.534	1.605	2.540
17	0.575	0.257	0.001	0.097	0.000	0.098	0.513	1.653	2.693
18	0.616	0.276	0.001	0.072	0.000	0.072	0.494	1.702	2.854
19	0.661	0.297	0.000	0.052	0.000	0.052	0.475	1.754	3.026
20	0.713	0.317	0.000	0.037	0.000	0.037	0.456	1.806	3.207
21	0.773	0.339	0.000	0.025	0.000	0.025	0.439	1.860	3.400
22	0.841	0.361	0.000	0.016	0.000	0.016	0.422	1.916	3.604
23	0.918	0.384	0.000	0.011	0.000	0.011	0.406	1.974	3.820
24	1.000	0.405	0.000	0.006	0.000	0.006	0.390	2.033	4.049
25	-	0.425	-	0.004	-	0.004	0.375	2.094	4.292
26	-	0.444	-	0.002	-	0.002	0.361	2.157	4.549
27	-	0.464	-	0.001	-	0.001	0.347	2.221	4.822
28	-	0.482	-	0.001	-	0.001	0.333	2.288	5.112
29	-	0.495	-	0.000	-	0.000	0.321	2.357	5.418
30	-	0.500	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	0.500	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	1.000	-	0.000	-	0.000	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
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43	-	-	-	-	-	-	0.185	3.565	12.250
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45	-	-	-	-	-	-	0.171	3.782	13.765
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47	-	-	-	-	-	-	0.158	4.012	15.466
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53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
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72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
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OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	36		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	11/1/1990		
(15)	**DATE OF FILING**	1/22/1991		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	79	M	
(17)	**CLAIMANT 2 (y)**	71	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.71	5.74
(19)	APV FOR CLAIMANT 2	23.35	15.53
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.13	5.31
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	17.79	10.64
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	208,691	143,903
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	7.623	6.423
(29)	APV OF MEDICAL BENEFIT	48,484	40,851

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.121	0.015	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.131	0.017	0.879	0.985	0.866	0.132	0.962	1.030	1.060
2	0.141	0.018	0.764	0.969	0.740	0.252	0.925	1.061	1.124
3	0.151	0.020	0.656	0.951	0.624	0.359	0.889	1.093	1.191
4	0.162	0.023	0.557	0.932	0.519	0.451	0.855	1.126	1.262
5	0.173	0.025	0.467	0.910	0.425	0.527	0.822	1.159	1.338
6	0.186	0.028	0.386	0.887	0.343	0.588	0.790	1.194	1.419
7	0.201	0.032	0.314	0.862	0.271	0.635	0.760	1.230	1.504
8	0.218	0.035	0.251	0.835	0.209	0.667	0.731	1.267	1.594
9	0.237	0.039	0.196	0.805	0.158	0.686	0.703	1.305	1.689
10	0.258	0.044	0.150	0.774	0.116	0.692	0.676	1.344	1.791
11	0.282	0.049	0.111	0.740	0.082	0.686	0.650	1.384	1.898
12	0.309	0.055	0.080	0.703	0.056	0.671	0.625	1.426	2.012
13	0.339	0.061	0.055	0.665	0.037	0.647	0.601	1.469	2.133
14	0.371	0.068	0.036	0.624	0.023	0.615	0.577	1.513	2.261
15	0.406	0.075	0.023	0.582	0.013	0.578	0.555	1.558	2.397
16	0.444	0.084	0.014	0.538	0.007	0.537	0.534	1.605	2.540
17	0.475	0.094	0.008	0.493	0.004	0.493	0.513	1.653	2.693
18	0.506	0.105	0.004	0.447	0.002	0.447	0.494	1.702	2.854
19	0.539	0.116	0.002	0.400	0.001	0.400	0.475	1.754	3.026
20	0.575	0.129	0.001	0.353	0.000	0.354	0.456	1.806	3.207
21	0.616	0.142	0.000	0.308	0.000	0.308	0.439	1.860	3.400
22	0.661	0.156	0.000	0.264	0.000	0.264	0.422	1.916	3.604
23	0.713	0.171	0.000	0.223	0.000	0.223	0.406	1.974	3.820
24	0.773	0.186	0.000	0.185	0.000	0.185	0.390	2.033	4.049
25	0.841	0.203	0.000	0.150	0.000	0.150	0.375	2.094	4.292
26	0.918	0.220	0.000	0.120	0.000	0.120	0.361	2.157	4.549
27	1.000	0.238	0.000	0.094	0.000	0.094	0.347	2.221	4.822
28	-	0.257	-	0.071	-	0.071	0.333	2.288	5.112
29	-	0.276	-	0.053	-	0.053	0.321	2.357	5.418
30	-	0.297	-	0.038	-	0.038	0.308	2.427	5.743
31	-	0.317	-	0.027	-	0.027	0.296	2.500	6.088
32	-	0.339	-	0.018	-	0.018	0.285	2.575	6.453
33	-	0.361	-	0.012	-	0.012	0.274	2.652	6.841
34	-	0.384	-	0.008	-	0.008	0.264	2.732	7.251
35	-	0.405	-	0.005	-	0.005	0.253	2.814	7.686
36	-	0.425	-	0.003	-	0.003	0.244	2.898	8.147
37	-	0.444	-	0.002	-	0.002	0.234	2.985	8.636
38	-	0.464	-	0.001	-	0.001	0.225	3.075	9.154
39	-	0.482	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.495	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	1.000	-	0.000	-	0.000	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	37		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/1/1991		
(15)	**DATE OF FILING**	4/2/1991		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	74	M	
(17)	**CLAIMANT 2 (y)**	77	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.17	7.46
(19)	APV FOR CLAIMANT 2	16.19	11.84
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.20	6.11
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	10.96	7.09
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	168,300	125,622
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.897	8.654
(29)	APV OF MEDICAL BENEFIT	69,302	55,039

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.080	0.028	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.086	0.032	0.920	0.972	0.894	0.103	0.962	1.030	1.060
2	0.094	0.035	0.841	0.941	0.791	0.199	0.925	1.061	1.124
3	0.102	0.039	0.762	0.908	0.692	0.286	0.889	1.093	1.191
4	0.111	0.044	0.684	0.872	0.597	0.363	0.855	1.126	1.262
5	0.121	0.049	0.608	0.833	0.507	0.428	0.822	1.159	1.338
6	0.131	0.055	0.535	0.793	0.424	0.480	0.790	1.194	1.419
7	0.141	0.061	0.465	0.749	0.348	0.518	0.760	1.230	1.504
8	0.151	0.068	0.399	0.703	0.281	0.541	0.731	1.267	1.594
9	0.162	0.075	0.339	0.656	0.222	0.550	0.703	1.305	1.689
10	0.173	0.084	0.284	0.606	0.172	0.546	0.676	1.344	1.791
11	0.186	0.094	0.235	0.555	0.130	0.529	0.650	1.384	1.898
12	0.201	0.105	0.191	0.503	0.096	0.502	0.625	1.426	2.012
13	0.218	0.116	0.153	0.451	0.069	0.466	0.601	1.469	2.133
14	0.237	0.129	0.119	0.398	0.048	0.423	0.577	1.513	2.261
15	0.258	0.142	0.091	0.347	0.032	0.375	0.555	1.558	2.397
16	0.282	0.156	0.068	0.298	0.020	0.325	0.534	1.605	2.540
17	0.309	0.171	0.048	0.251	0.012	0.275	0.513	1.653	2.693
18	0.339	0.186	0.033	0.208	0.007	0.228	0.494	1.702	2.854
19	0.371	0.203	0.022	0.170	0.004	0.184	0.475	1.754	3.026
20	0.406	0.220	0.014	0.135	0.002	0.145	0.456	1.806	3.207
21	0.444	0.238	0.008	0.106	0.001	0.112	0.439	1.860	3.400
22	0.475	0.257	0.005	0.080	0.000	0.084	0.422	1.916	3.604
23	0.506	0.276	0.002	0.060	0.000	0.062	0.406	1.974	3.820
24	0.539	0.297	0.001	0.043	0.000	0.044	0.390	2.033	4.049
25	0.575	0.317	0.001	0.030	0.000	0.031	0.375	2.094	4.292
26	0.616	0.339	0.000	0.021	0.000	0.021	0.361	2.157	4.549
27	0.661	0.361	0.000	0.014	0.000	0.014	0.347	2.221	4.822
28	0.713	0.384	0.000	0.009	0.000	0.009	0.333	2.288	5.112
29	0.773	0.405	0.000	0.005	0.000	0.005	0.321	2.357	5.418
30	0.841	0.425	0.000	0.003	0.000	0.003	0.308	2.427	5.743
31	0.918	0.444	0.000	0.002	0.000	0.002	0.296	2.500	6.088
32	1.000	0.464	0.000	0.001	0.000	0.001	0.285	2.575	6.453
33	-	0.482	-	0.001	-	0.001	0.274	2.652	6.841
34	-	0.495	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	1.000	-	0.000	-	0.000	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	38		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	5/1/1992		
(15)	**DATE OF FILING**	8/30/1994		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	75	M	
(17)	**CLAIMANT 2 (y)**	75	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.62	7.09
(19)	APV FOR CLAIMANT 2	18.37	13.03
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.16	6.08
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	12.67	7.97
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	181,025	132,062
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	10.143	8.159
(29)	APV OF MEDICAL BENEFIT	64,512	51,889

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.086	0.023	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	0.025	0.914	0.977	0.893	0.105	0.962	1.030	1.060
2	0.102	0.028	0.828	0.953	0.789	0.203	0.925	1.061	1.124
3	0.111	0.032	0.743	0.926	0.688	0.293	0.889	1.093	1.191
4	0.121	0.035	0.661	0.896	0.592	0.373	0.855	1.126	1.262
5	0.131	0.039	0.581	0.864	0.502	0.441	0.822	1.159	1.338
6	0.141	0.044	0.505	0.830	0.419	0.497	0.790	1.194	1.419
7	0.151	0.049	0.434	0.794	0.344	0.539	0.760	1.230	1.504
8	0.162	0.055	0.368	0.755	0.278	0.567	0.731	1.267	1.594
9	0.173	0.061	0.309	0.713	0.220	0.582	0.703	1.305	1.689
10	0.186	0.068	0.255	0.670	0.171	0.583	0.676	1.344	1.791
11	0.201	0.075	0.208	0.625	0.130	0.573	0.650	1.384	1.898
12	0.218	0.084	0.166	0.578	0.096	0.552	0.625	1.426	2.012
13	0.237	0.094	0.130	0.529	0.069	0.521	0.601	1.469	2.133
14	0.258	0.105	0.099	0.479	0.047	0.483	0.577	1.513	2.261
15	0.282	0.116	0.073	0.429	0.031	0.440	0.555	1.558	2.397
16	0.309	0.129	0.053	0.379	0.020	0.392	0.534	1.605	2.540
17	0.339	0.142	0.036	0.330	0.012	0.343	0.513	1.653	2.693
18	0.371	0.156	0.024	0.284	0.007	0.294	0.494	1.702	2.854
19	0.406	0.171	0.015	0.239	0.004	0.247	0.475	1.754	3.026
20	0.444	0.186	0.009	0.199	0.002	0.204	0.456	1.806	3.207
21	0.475	0.203	0.005	0.162	0.001	0.165	0.439	1.860	3.400
22	0.506	0.220	0.003	0.129	0.000	0.131	0.422	1.916	3.604
23	0.539	0.238	0.001	0.101	0.000	0.102	0.406	1.974	3.820
24	0.575	0.257	0.001	0.077	0.000	0.077	0.390	2.033	4.049
25	0.616	0.276	0.000	0.057	0.000	0.057	0.375	2.094	4.292
26	0.661	0.297	0.000	0.041	0.000	0.041	0.361	2.157	4.549
27	0.713	0.317	0.000	0.029	0.000	0.029	0.347	2.221	4.822
28	0.773	0.339	0.000	0.020	0.000	0.020	0.333	2.288	5.112
29	0.841	0.361	0.000	0.013	0.000	0.013	0.321	2.357	5.418
30	0.918	0.384	0.000	0.008	0.000	0.008	0.308	2.427	5.743
31	1.000	0.405	0.000	0.005	0.000	0.005	0.296	2.500	6.088
32	-	0.425	-	0.003	-	0.003	0.285	2.575	6.453
33	-	0.444	-	0.002	-	0.002	0.274	2.652	6.841
34	-	0.464	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.482	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.495	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	1.000	-	0.000	-	0.000	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
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88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
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99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
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109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
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119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

	CLAIM INFO		
(11)	**INDEX**	39	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	3/29/1994	
(15)	**DATE OF FILING**	9/27/1994	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	93	M
(17)	**CLAIMANT 2 (y)**	83	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	2.51	2.39
(19)	APV FOR CLAIMANT 2	10.84	8.61
(20)	APV FOR BOTH CLAIMANTS ALIVE	2.32	2.22
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	8.71	6.56
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	94,212	76,444
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	2.604	2.472
(29)	APV OF MEDICAL BENEFIT	16,561	15,725

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.371	0.055	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.406	0.061	0.629	0.945	0.595	0.385	0.962	1.030	1.060
2	0.444	0.068	0.374	0.888	0.331	0.598	0.925	1.061	1.124
3	0.475	0.075	0.208	0.827	0.172	0.692	0.889	1.093	1.191
4	0.506	0.084	0.109	0.765	0.083	0.707	0.855	1.126	1.262
5	0.539	0.094	0.054	0.701	0.038	0.679	0.822	1.159	1.338
6	0.575	0.105	0.025	0.635	0.016	0.628	0.790	1.194	1.419
7	0.616	0.116	0.011	0.569	0.006	0.567	0.760	1.230	1.504
8	0.661	0.129	0.004	0.502	0.002	0.502	0.731	1.267	1.594
9	0.713	0.142	0.001	0.438	0.001	0.438	0.703	1.305	1.689
10	0.773	0.156	0.000	0.376	0.000	0.376	0.676	1.344	1.791
11	0.841	0.171	0.000	0.317	0.000	0.317	0.650	1.384	1.898
12	0.918	0.186	0.000	0.263	0.000	0.263	0.625	1.426	2.012
13	1.000	0.203	0.000	0.214	0.000	0.214	0.601	1.469	2.133
14	-	0.220	-	0.171	-	0.171	0.577	1.513	2.261
15	-	0.238	-	0.133	-	0.133	0.555	1.558	2.397
16	-	0.257	-	0.102	-	0.102	0.534	1.605	2.540
17	-	0.276	-	0.075	-	0.075	0.513	1.653	2.693
18	-	0.297	-	0.055	-	0.055	0.494	1.702	2.854
19	-	0.317	-	0.038	-	0.038	0.475	1.754	3.026
20	-	0.339	-	0.026	-	0.026	0.456	1.806	3.207
21	-	0.361	-	0.017	-	0.017	0.439	1.860	3.400
22	-	0.384	-	0.011	-	0.011	0.422	1.916	3.604
23	-	0.405	-	0.007	-	0.007	0.406	1.974	3.820
24	-	0.425	-	0.004	-	0.004	0.390	2.033	4.049
25	-	0.444	-	0.002	-	0.002	0.375	2.094	4.292
26	-	0.464	-	0.001	-	0.001	0.361	2.157	4.549
27	-	0.482	-	0.001	-	0.001	0.347	2.221	4.822
28	-	0.495	-	0.000	-	0.000	0.333	2.288	5.112
29	-	0.500	-	0.000	-	0.000	0.321	2.357	5.418
30	-	0.500	-	0.000	-	0.000	0.308	2.427	5.743
31	-	0.500	-	0.000	-	0.000	0.296	2.500	6.088
32	-	0.500	-	0.000	-	0.000	0.285	2.575	6.453
33	-	0.500	-	0.000	-	0.000	0.274	2.652	6.841
34	-	0.500	-	0.000	-	0.000	0.264	2.732	7.251
35	-	0.500	-	0.000	-	0.000	0.253	2.814	7.686
36	-	0.500	-	0.000	-	0.000	0.244	2.898	8.147
37	-	1.000	-	0.000	-	0.000	0.234	2.985	8.636
38	-	-	-	-	-	-	0.225	3.075	9.154
39	-	-	-	-	-	-	0.217	3.167	9.704
40	-	-	-	-	-	-	0.208	3.262	10.286
41	-	-	-	-	-	-	0.200	3.360	10.903
42	-	-	-	-	-	-	0.193	3.461	11.557
43	-	-	-	-	-	-	0.185	3.565	12.250
44	-	-	-	-	-	-	0.178	3.671	12.985
45	-	-	-	-	-	-	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	40		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	1/1/1995		
(15)	**DATE OF FILING**	1/31/1995		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	68	M	
(17)	**CLAIMANT 2 (y)**	52	F	

		NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.06	9.90
(19)	APV FOR CLAIMANT 2	60.51	28.36
(20)	APV FOR BOTH CLAIMANTS ALIVE	12.67	9.68
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	48.23	18.90
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	519,918	258,410
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	16.542	12.072
(29)	APV OF MEDICAL BENEFIT	105,207	76,775

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.050	0.002	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.055	0.002	0.950	0.998	0.948	0.052	0.962	1.030	1.060
2	0.059	0.002	0.898	0.996	0.894	0.105	0.925	1.061	1.124
3	0.064	0.002	0.844	0.994	0.840	0.160	0.889	1.093	1.191
4	0.069	0.003	0.790	0.992	0.784	0.214	0.855	1.126	1.262
5	0.074	0.003	0.736	0.989	0.728	0.269	0.822	1.159	1.338
6	0.080	0.003	0.682	0.987	0.673	0.323	0.790	1.194	1.419
7	0.086	0.004	0.628	0.983	0.617	0.377	0.760	1.230	1.504
8	0.094	0.004	0.573	0.979	0.562	0.430	0.731	1.267	1.594
9	0.102	0.005	0.520	0.975	0.507	0.481	0.703	1.305	1.689
10	0.111	0.006	0.467	0.970	0.453	0.531	0.676	1.344	1.791
11	0.121	0.007	0.415	0.964	0.400	0.579	0.650	1.384	1.898
12	0.131	0.008	0.364	0.958	0.349	0.624	0.625	1.426	2.012
13	0.141	0.009	0.317	0.951	0.301	0.665	0.601	1.469	2.133
14	0.151	0.010	0.272	0.943	0.257	0.702	0.577	1.513	2.261
15	0.162	0.011	0.231	0.933	0.216	0.733	0.555	1.558	2.397
16	0.173	0.012	0.194	0.923	0.179	0.759	0.534	1.605	2.540
17	0.186	0.013	0.160	0.912	0.146	0.780	0.513	1.653	2.693
18	0.201	0.014	0.130	0.901	0.117	0.796	0.494	1.702	2.854
19	0.218	0.015	0.104	0.889	0.092	0.808	0.475	1.754	3.026
20	0.237	0.017	0.081	0.875	0.071	0.814	0.456	1.806	3.207
21	0.258	0.018	0.062	0.861	0.053	0.816	0.439	1.860	3.400
22	0.282	0.020	0.046	0.845	0.039	0.813	0.422	1.916	3.604
23	0.309	0.023	0.033	0.828	0.027	0.806	0.406	1.974	3.820
24	0.339	0.025	0.023	0.809	0.018	0.795	0.390	2.033	4.049
25	0.371	0.028	0.015	0.789	0.012	0.780	0.375	2.094	4.292
26	0.406	0.032	0.009	0.766	0.007	0.761	0.361	2.157	4.549
27	0.444	0.035	0.006	0.742	0.004	0.739	0.347	2.221	4.822
28	0.475	0.039	0.003	0.716	0.002	0.714	0.333	2.288	5.112
29	0.506	0.044	0.002	0.687	0.001	0.687	0.321	2.357	5.418
30	0.539	0.049	0.001	0.657	0.001	0.657	0.308	2.427	5.743
31	0.575	0.055	0.000	0.625	0.000	0.625	0.296	2.500	6.088
32	0.616	0.061	0.000	0.591	0.000	0.591	0.285	2.575	6.453
33	0.661	0.068	0.000	0.555	0.000	0.555	0.274	2.652	6.841
34	0.713	0.075	0.000	0.517	0.000	0.517	0.264	2.732	7.251
35	0.773	0.084	0.000	0.478	0.000	0.478	0.253	2.814	7.686
36	0.841	0.094	0.000	0.438	0.000	0.438	0.244	2.898	8.147
37	0.918	0.105	0.000	0.397	0.000	0.397	0.234	2.985	8.636
38	1.000	0.116	0.000	0.355	0.000	0.355	0.225	3.075	9.154
39	-	0.129	-	0.314	-	0.314	0.217	3.167	9.704
40	-	0.142	-	0.274	-	0.274	0.208	3.262	10.286
41	-	0.156	-	0.235	-	0.235	0.200	3.360	10.903
42	-	0.171	-	0.198	-	0.198	0.193	3.461	11.557
43	-	0.186	-	0.164	-	0.164	0.185	3.565	12.250
44	-	0.203	-	0.134	-	0.134	0.178	3.671	12.985
45	-	0.220	-	0.107	-	0.107	0.171	3.782	13.765
46	-	0.238	-	0.083	-	0.083	0.165	3.895	14.590
47	-	0.257	-	0.063	-	0.063	0.158	4.012	15.466
48	-	0.276	-	0.047	-	0.047	0.152	4.132	16.394
49	-	0.297	-	0.034	-	0.034	0.146	4.256	17.378
50	-	0.317	-	0.024	-	0.024	0.141	4.384	18.420
51	-	0.339	-	0.016	-	0.016	0.135	4.515	19.525
52	-	0.361	-	0.011	-	0.011	0.130	4.651	20.697
53	-	0.384	-	0.007	-	0.007	0.125	4.790	21.939
54	-	0.405	-	0.004	-	0.004	0.120	4.934	23.255
55	-	0.425	-	0.003	-	0.003	0.116	5.082	24.650
56	-	0.444	-	0.001	-	0.001	0.111	5.235	26.129
57	-	0.464	-	0.001	-	0.001	0.107	5.392	27.697
58	-	0.482	-	0.000	-	0.000	0.103	5.553	29.359
59	-	0.495	-	0.000	-	0.000	0.099	5.720	31.120
60	-	0.500	-	0.000	-	0.000	0.095	5.892	32.988
61	-	0.500	-	0.000	-	0.000	0.091	6.068	34.967
62	-	0.500	-	0.000	-	0.000	0.088	6.250	37.065
63	-	0.500	-	0.000	-	0.000	0.085	6.438	39.289
64	-	0.500	-	0.000	-	0.000	0.081	6.631	41.646
65	-	0.500	-	0.000	-	0.000	0.078	6.830	44.145
66	-	0.500	-	0.000	-	0.000	0.075	7.035	46.794
67	-	0.500	-	0.000	-	0.000	0.072	7.246	49.601
68	-	1.000	-	0.000	-	0.000	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	41	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	IW + Dep 1	
(14)	**DATE OF INJURY**	10/1/1993	
(15)	**DATE OF FILING**	1/21/1995	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	76	M
(17)	**CLAIMANT 2 (y)**	72	F

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.10	6.73
(19)	APV FOR CLAIMANT 2	22.02	14.89
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.13	6.05
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	15.86	9.52
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	205,343	143,778
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	9.439	7.686
(29)	APV OF MEDICAL BENEFIT	60,035	48,883

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.094	0.017	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.102	0.018	0.906	0.983	0.891	0.107	0.962	1.030	1.060
2	0.111	0.020	0.814	0.965	0.785	0.208	0.925	1.061	1.124
3	0.121	0.023	0.723	0.946	0.684	0.301	0.889	1.093	1.191
4	0.131	0.025	0.636	0.924	0.587	0.385	0.855	1.126	1.262
5	0.141	0.028	0.552	0.901	0.498	0.458	0.822	1.159	1.338
6	0.151	0.032	0.475	0.875	0.415	0.519	0.790	1.194	1.419
7	0.162	0.035	0.403	0.848	0.342	0.567	0.760	1.230	1.504
8	0.173	0.039	0.338	0.818	0.276	0.603	0.731	1.267	1.594
9	0.186	0.044	0.279	0.785	0.219	0.626	0.703	1.305	1.689
10	0.201	0.049	0.227	0.751	0.171	0.637	0.676	1.344	1.791
11	0.218	0.055	0.181	0.714	0.130	0.636	0.650	1.384	1.898
12	0.237	0.061	0.142	0.675	0.096	0.625	0.625	1.426	2.012
13	0.258	0.068	0.108	0.634	0.069	0.605	0.601	1.469	2.133
14	0.282	0.075	0.080	0.591	0.047	0.576	0.577	1.513	2.261
15	0.309	0.084	0.058	0.546	0.031	0.541	0.555	1.558	2.397
16	0.339	0.094	0.040	0.500	0.020	0.500	0.534	1.605	2.540
17	0.371	0.105	0.026	0.453	0.012	0.456	0.513	1.653	2.693
18	0.406	0.116	0.017	0.406	0.007	0.409	0.494	1.702	2.854
19	0.444	0.129	0.010	0.359	0.004	0.362	0.475	1.754	3.026
20	0.475	0.142	0.005	0.313	0.002	0.315	0.456	1.806	3.207
21	0.506	0.156	0.003	0.268	0.001	0.270	0.439	1.860	3.400
22	0.539	0.171	0.001	0.226	0.000	0.227	0.422	1.916	3.604
23	0.575	0.186	0.001	0.188	0.000	0.188	0.406	1.974	3.820
24	0.616	0.203	0.000	0.153	0.000	0.153	0.390	2.033	4.049
25	0.661	0.220	0.000	0.122	0.000	0.122	0.375	2.094	4.292
26	0.713	0.238	0.000	0.095	0.000	0.095	0.361	2.157	4.549
27	0.773	0.257	0.000	0.072	0.000	0.072	0.347	2.221	4.822
28	0.841	0.276	0.000	0.054	0.000	0.054	0.333	2.288	5.112
29	0.918	0.297	0.000	0.039	0.000	0.039	0.321	2.357	5.418
30	1.000	0.317	0.000	0.027	0.000	0.027	0.308	2.427	5.743
31	-	0.339	-	0.019	-	0.019	0.296	2.500	6.088
32	-	0.361	-	0.012	-	0.012	0.285	2.575	6.453
33	-	0.384	-	0.008	-	0.008	0.274	2.652	6.841
34	-	0.405	-	0.005	-	0.005	0.264	2.732	7.251
35	-	0.425	-	0.003	-	0.003	0.253	2.814	7.686
36	-	0.444	-	0.002	-	0.002	0.244	2.898	8.147
37	-	0.464	-	0.001	-	0.001	0.234	2.985	8.636
38	-	0.482	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.495	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	1.000	-	0.000	-	0.000	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (3) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	42		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	8/1/1994		
(15)	**DATE OF FILING**	11/22/1995		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	76	M	
(17)	**CLAIMANT 2 (y)**	75	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.10	6.73
(19)	APV FOR CLAIMANT 2	18.37	13.03
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.82	5.83
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	12.83	8.10
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	178,300	130,237
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	9.439	7.686
(29)	APV OF MEDICAL BENEFIT	60,035	48,883

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.094	0.023	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.102	0.025	0.906	0.977	0.886	0.112	0.962	1.030	1.060
2	0.111	0.028	0.814	0.953	0.775	0.216	0.925	1.061	1.124
3	0.121	0.032	0.723	0.926	0.669	0.310	0.889	1.093	1.191
4	0.131	0.035	0.636	0.896	0.570	0.393	0.855	1.126	1.262
5	0.141	0.039	0.552	0.864	0.478	0.462	0.822	1.159	1.338
6	0.151	0.044	0.475	0.830	0.394	0.517	0.790	1.194	1.419
7	0.162	0.049	0.403	0.794	0.320	0.557	0.760	1.230	1.504
8	0.173	0.055	0.338	0.755	0.255	0.583	0.731	1.267	1.594
9	0.186	0.061	0.279	0.713	0.199	0.594	0.703	1.305	1.689
10	0.201	0.068	0.227	0.670	0.152	0.593	0.676	1.344	1.791
11	0.218	0.075	0.181	0.625	0.113	0.579	0.650	1.384	1.898
12	0.237	0.084	0.142	0.578	0.082	0.556	0.625	1.426	2.012
13	0.258	0.094	0.108	0.529	0.057	0.523	0.601	1.469	2.133
14	0.282	0.105	0.080	0.479	0.038	0.483	0.577	1.513	2.261
15	0.309	0.116	0.058	0.429	0.025	0.437	0.555	1.558	2.397
16	0.339	0.129	0.040	0.379	0.015	0.389	0.534	1.605	2.540
17	0.371	0.142	0.026	0.330	0.009	0.339	0.513	1.653	2.693
18	0.406	0.156	0.017	0.284	0.005	0.291	0.494	1.702	2.854
19	0.444	0.171	0.010	0.239	0.002	0.244	0.475	1.754	3.026
20	0.475	0.186	0.005	0.199	0.001	0.202	0.456	1.806	3.207
21	0.506	0.203	0.003	0.162	0.000	0.163	0.439	1.860	3.400
22	0.539	0.220	0.001	0.129	0.000	0.130	0.422	1.916	3.604
23	0.575	0.238	0.001	0.101	0.000	0.101	0.406	1.974	3.820
24	0.616	0.257	0.000	0.077	0.000	0.077	0.390	2.033	4.049
25	0.661	0.276	0.000	0.057	0.000	0.057	0.375	2.094	4.292
26	0.713	0.297	0.000	0.041	0.000	0.041	0.361	2.157	4.549
27	0.773	0.317	0.000	0.029	0.000	0.029	0.347	2.221	4.822
28	0.841	0.339	0.000	0.020	0.000	0.020	0.333	2.288	5.112
29	0.918	0.361	0.000	0.013	0.000	0.013	0.321	2.357	5.418
30	1.000	0.384	0.000	0.008	0.000	0.008	0.308	2.427	5.743
31	-	0.405	-	0.005	-	0.005	0.296	2.500	6.088
32	-	0.425	-	0.003	-	0.003	0.285	2.575	6.453
33	-	0.444	-	0.002	-	0.002	0.274	2.652	6.841
34	-	0.464	-	0.001	-	0.001	0.264	2.732	7.251
35	-	0.482	-	0.001	-	0.001	0.253	2.814	7.686
36	-	0.495	-	0.000	-	0.000	0.244	2.898	8.147
37	-	0.500	-	0.000	-	0.000	0.234	2.985	8.636
38	-	0.500	-	0.000	-	0.000	0.225	3.075	9.154
39	-	0.500	-	0.000	-	0.000	0.217	3.167	9.704
40	-	0.500	-	0.000	-	0.000	0.208	3.262	10.286
41	-	0.500	-	0.000	-	0.000	0.200	3.360	10.903
42	-	0.500	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.500	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	1.000	-	0.000	-	0.000	0.171	3.782	13.765
46	-	-	-	-	-	-	0.165	3.895	14.590
47	-	-	-	-	-	-	0.158	4.012	15.466
48	-	-	-	-	-	-	0.152	4.132	16.394
49	-	-	-	-	-	-	0.146	4.256	17.378
50	-	-	-	-	-	-	0.141	4.384	18.420
51	-	-	-	-	-	-	0.135	4.515	19.525
52	-	-	-	-	-	-	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
55	-	-	-	-	-	-	0.116	5.082	24.650
56	-	-	-	-	-	-	0.111	5.235	26.129
57	-	-	-	-	-	-	0.107	5.392	27.697
58	-	-	-	-	-	-	0.103	5.553	29.359
59	-	-	-	-	-	-	0.099	5.720	31.120
60	-	-	-	-	-	-	0.095	5.892	32.988
61	-	-	-	-	-	-	0.091	6.068	34.967
62	-	-	-	-	-	-	0.088	6.250	37.065
63	-	-	-	-	-	-	0.085	6.438	39.289
64	-	-	-	-	-	-	0.081	6.631	41.646
65	-	-	-	-	-	-	0.078	6.830	44.145
66	-	-	-	-	-	-	0.075	7.035	46.794
67	-	-	-	-	-	-	0.072	7.246	49.601
68	-	-	-	-	-	-	0.069	7.463	52.577
69	-	-	-	-	-	-	0.067	7.687	55.732
70	-	-	-	-	-	-	0.064	7.918	59.076
71	-	-	-	-	-	-	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	43		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 1		
(14)	**DATE OF INJURY**	4/1/1996		
(15)	**DATE OF FILING**	4/16/1996		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	70	M	
(17)	**CLAIMANT 2 (y)**	68	F	

		NOMINAL	**DISCOUNTED**
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	11.64	9.04
(19)	APV FOR CLAIMANT 2	27.60	17.45
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.14	8.10
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	18.97	10.29
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	11,597	11,597
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	264,236	173,538
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	14.410	10.834
(29)	APV OF MEDICAL BENEFIT	91,648	68,903

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.059	0.012	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.064	0.013	0.941	0.988	0.930	0.070	0.962	1.030	1.060
2	0.069	0.014	0.880	0.976	0.859	0.138	0.925	1.061	1.124
3	0.074	0.015	0.820	0.962	0.789	0.204	0.889	1.093	1.191
4	0.080	0.017	0.759	0.948	0.720	0.268	0.855	1.126	1.262
5	0.086	0.018	0.699	0.932	0.652	0.328	0.822	1.159	1.338
6	0.094	0.020	0.639	0.915	0.585	0.385	0.790	1.194	1.419
7	0.102	0.023	0.579	0.896	0.519	0.437	0.760	1.230	1.504
8	0.111	0.025	0.520	0.876	0.455	0.485	0.731	1.267	1.594
9	0.121	0.028	0.462	0.854	0.394	0.527	0.703	1.305	1.689
10	0.131	0.032	0.406	0.830	0.337	0.562	0.676	1.344	1.791
11	0.141	0.035	0.353	0.803	0.284	0.589	0.650	1.384	1.898
12	0.151	0.039	0.303	0.775	0.235	0.608	0.625	1.426	2.012
13	0.162	0.044	0.257	0.744	0.192	0.619	0.601	1.469	2.133
14	0.173	0.049	0.216	0.712	0.154	0.620	0.577	1.513	2.261
15	0.186	0.055	0.178	0.677	0.121	0.614	0.555	1.558	2.397
16	0.201	0.061	0.145	0.640	0.093	0.599	0.534	1.605	2.540
17	0.218	0.068	0.116	0.601	0.070	0.577	0.513	1.653	2.693
18	0.237	0.075	0.091	0.560	0.051	0.549	0.494	1.702	2.854
19	0.258	0.084	0.069	0.518	0.036	0.515	0.475	1.754	3.026
20	0.282	0.094	0.051	0.474	0.024	0.477	0.456	1.806	3.207
21	0.309	0.105	0.037	0.430	0.016	0.435	0.439	1.860	3.400
22	0.339	0.116	0.025	0.385	0.010	0.391	0.422	1.916	3.604
23	0.371	0.129	0.017	0.340	0.006	0.345	0.406	1.974	3.820
24	0.406	0.142	0.011	0.296	0.003	0.301	0.390	2.033	4.049
25	0.444	0.156	0.006	0.254	0.002	0.257	0.375	2.094	4.292
26	0.475	0.171	0.003	0.215	0.001	0.217	0.361	2.157	4.549
27	0.506	0.186	0.002	0.178	0.000	0.179	0.347	2.221	4.822
28	0.539	0.203	0.001	0.145	0.000	0.145	0.333	2.288	5.112
29	0.575	0.220	0.000	0.115	0.000	0.116	0.321	2.357	5.418
30	0.616	0.238	0.000	0.090	0.000	0.090	0.308	2.427	5.743
31	0.661	0.257	0.000	0.069	0.000	0.069	0.296	2.500	6.088
32	0.713	0.276	0.000	0.051	0.000	0.051	0.285	2.575	6.453
33	0.773	0.297	0.000	0.037	0.000	0.037	0.274	2.652	6.841
34	0.841	0.317	0.000	0.026	0.000	0.026	0.264	2.732	7.251
35	0.918	0.339	0.000	0.018	0.000	0.018	0.253	2.814	7.686
36	1.000	0.361	0.000	0.012	0.000	0.012	0.244	2.898	8.147
37	-	0.384	-	0.008	-	0.008	0.234	2.985	8.636
38	-	0.405	-	0.005	-	0.005	0.225	3.075	9.154
39	-	0.425	-	0.003	-	0.003	0.217	3.167	9.704
40	-	0.444	-	0.002	-	0.002	0.208	3.262	10.286
41	-	0.464	-	0.001	-	0.001	0.200	3.360	10.903
42	-	0.482	-	0.000	-	0.000	0.193	3.461	11.557
43	-	0.495	-	0.000	-	0.000	0.185	3.565	12.250
44	-	0.500	-	0.000	-	0.000	0.178	3.671	12.985
45	-	0.500	-	0.000	-	0.000	0.171	3.782	13.765
46	-	0.500	-	0.000	-	0.000	0.165	3.895	14.590
47	-	0.500	-	0.000	-	0.000	0.158	4.012	15.466
48	-	0.500	-	0.000	-	0.000	0.152	4.132	16.394
49	-	0.500	-	0.000	-	0.000	0.146	4.256	17.378
50	-	0.500	-	0.000	-	0.000	0.141	4.384	18.420
51	-	0.500	-	0.000	-	0.000	0.135	4.515	19.525
52	-	1.000	-	0.000	-	0.000	0.130	4.651	20.697
53	-	-	-	-	-	-	0.125	4.790	21.939
54	-	-	-	-	-	-	0.120	4.934	23.255
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
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BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	44		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	IW + Dep 2		
(14)	**DATE OF INJURY**	10/11/2001		
(15)	**DATE OF FILING**	11/29/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	35	M	
(17)	**CLAIMANT 2 (y)**	56	F	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	69.18	30.03
(19)	APV FOR CLAIMANT 2	50.46	25.59
(20)	APV FOR BOTH CLAIMANTS ALIVE	41.72	22.76
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	36.20	10.10
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	13,530	13,530
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	7,732	7,732
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	844,435	386,082
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	625.60	625.60
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	7,507.20	7,507.20
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	6,360	6,360
(28)	APV FOR $1 OF MEDICAL BENEFIT	152.104	53.859
(29)	APV OF MEDICAL BENEFIT	967,379	342,542

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.003	0.003	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.003	0.003	0.997	0.997	0.995	0.005	0.962	1.030	1.060
2	0.003	0.003	0.995	0.995	0.989	0.011	0.925	1.061	1.124
3	0.003	0.004	0.992	0.991	0.984	0.016	0.889	1.093	1.191
4	0.003	0.004	0.989	0.987	0.977	0.023	0.855	1.126	1.262
5	0.003	0.005	0.986	0.983	0.970	0.030	0.822	1.159	1.338
6	0.004	0.006	0.983	0.978	0.961	0.038	0.790	1.194	1.419
7	0.004	0.007	0.979	0.972	0.952	0.047	0.760	1.230	1.504
8	0.005	0.008	0.975	0.966	0.942	0.057	0.731	1.267	1.594
9	0.006	0.009	0.971	0.958	0.930	0.069	0.703	1.305	1.689
10	0.006	0.010	0.965	0.950	0.917	0.081	0.676	1.344	1.791
11	0.007	0.011	0.959	0.941	0.902	0.095	0.650	1.384	1.898
12	0.007	0.012	0.953	0.931	0.887	0.110	0.625	1.426	2.012
13	0.007	0.013	0.946	0.920	0.870	0.125	0.601	1.469	2.133
14	0.008	0.014	0.939	0.908	0.853	0.141	0.577	1.513	2.261
15	0.008	0.015	0.932	0.896	0.835	0.158	0.555	1.558	2.397
16	0.009	0.017	0.924	0.882	0.815	0.176	0.534	1.605	2.540
17	0.010	0.018	0.916	0.868	0.795	0.194	0.513	1.653	2.693
18	0.012	0.020	0.906	0.852	0.772	0.214	0.494	1.702	2.854
19	0.013	0.023	0.896	0.834	0.747	0.235	0.475	1.754	3.026
20	0.014	0.025	0.884	0.816	0.721	0.258	0.456	1.806	3.207
21	0.015	0.028	0.872	0.795	0.693	0.281	0.439	1.860	3.400
22	0.017	0.032	0.858	0.772	0.663	0.305	0.422	1.916	3.604
23	0.018	0.035	0.844	0.748	0.631	0.330	0.406	1.974	3.820
24	0.020	0.039	0.828	0.721	0.598	0.355	0.390	2.033	4.049
25	0.022	0.044	0.812	0.693	0.562	0.380	0.375	2.094	4.292
26	0.024	0.049	0.794	0.662	0.526	0.404	0.361	2.157	4.549
27	0.027	0.055	0.775	0.630	0.488	0.429	0.347	2.221	4.822
28	0.030	0.061	0.754	0.595	0.449	0.452	0.333	2.288	5.112
29	0.033	0.068	0.732	0.559	0.409	0.473	0.321	2.357	5.418
30	0.037	0.075	0.708	0.521	0.369	0.491	0.308	2.427	5.743
31	0.041	0.084	0.682	0.482	0.329	0.507	0.296	2.500	6.088
32	0.046	0.094	0.654	0.441	0.289	0.518	0.285	2.575	6.453
33	0.050	0.105	0.624	0.400	0.250	0.525	0.274	2.652	6.841
34	0.055	0.116	0.593	0.358	0.212	0.526	0.264	2.732	7.251
35	0.059	0.129	0.560	0.317	0.177	0.522	0.253	2.814	7.686
36	0.064	0.142	0.527	0.276	0.145	0.512	0.244	2.898	8.147
37	0.069	0.156	0.493	0.237	0.117	0.496	0.234	2.985	8.636
38	0.074	0.171	0.459	0.200	0.092	0.476	0.225	3.075	9.154
39	0.080	0.186	0.425	0.166	0.070	0.450	0.217	3.167	9.704
40	0.086	0.203	0.392	0.135	0.053	0.421	0.208	3.262	10.286
41	0.094	0.220	0.358	0.107	0.038	0.388	0.200	3.360	10.903
42	0.102	0.238	0.324	0.084	0.027	0.354	0.193	3.461	11.557
43	0.111	0.257	0.291	0.064	0.019	0.318	0.185	3.565	12.250
44	0.121	0.276	0.259	0.048	0.012	0.282	0.178	3.671	12.985
45	0.131	0.297	0.227	0.034	0.008	0.246	0.171	3.782	13.765
46	0.141	0.317	0.198	0.024	0.005	0.212	0.165	3.895	14.590
47	0.151	0.339	0.170	0.017	0.003	0.181	0.158	4.012	15.466
48	0.162	0.361	0.144	0.011	0.002	0.152	0.152	4.132	16.394
49	0.173	0.384	0.121	0.007	0.001	0.126	0.146	4.256	17.378
50	0.186	0.405	0.100	0.004	0.000	0.103	0.141	4.384	18.420
51	0.201	0.425	0.081	0.003	0.000	0.083	0.135	4.515	19.525
52	0.218	0.444	0.065	0.001	0.000	0.066	0.130	4.651	20.697
53	0.237	0.464	0.051	0.001	0.000	0.052	0.125	4.790	21.939
54	0.258	0.482	0.039	0.000	0.000	0.039	0.120	4.934	23.255
55	0.282	0.495	0.029	0.000	0.000	0.029	0.116	5.082	24.650
56	0.309	0.500	0.021	0.000	0.000	0.021	0.111	5.235	26.129
57	0.339	0.500	0.014	0.000	0.000	0.014	0.107	5.392	27.697
58	0.371	0.500	0.009	0.000	0.000	0.009	0.103	5.553	29.359
59	0.406	0.500	0.006	0.000	0.000	0.006	0.099	5.720	31.120
60	0.444	0.500	0.004	0.000	0.000	0.004	0.095	5.892	32.988
61	0.475	0.500	0.002	0.000	0.000	0.002	0.091	6.068	34.967
62	0.506	0.500	0.001	0.000	0.000	0.001	0.088	6.250	37.065
63	0.539	0.500	0.001	0.000	0.000	0.001	0.085	6.438	39.289
64	0.575	1.000	0.000	0.000	0.000	0.000	0.081	6.631	41.646
65	0.616	-	0.000	-	-	0.000	0.078	6.830	44.145
66	0.661	-	0.000	-	-	0.000	0.075	7.035	46.794
67	0.713	-	0.000	-	-	0.000	0.072	7.246	49.601
68	0.773	-	0.000	-	-	0.000	0.069	7.463	52.577
69	0.841	-	0.000	-	-	0.000	0.067	7.687	55.732
70	0.918	-	0.000	-	-	0.000	0.064	7.918	59.076
71	1.000	-	0.000	-	-	0.000	0.062	8.155	62.620
72	-	-	-	-	-	-	0.059	8.400	66.378
73	-	-	-	-	-	-	0.057	8.652	70.360
74	-	-	-	-	-	-	0.055	8.912	74.582
75	-	-	-	-	-	-	0.053	9.179	79.057
76	-	-	-	-	-	-	0.051	9.454	83.800
77	-	-	-	-	-	-	0.049	9.738	88.828
78	-	-	-	-	-	-	0.047	10.030	94.158
79	-	-	-	-	-	-	0.045	10.331	99.808
80	-	-	-	-	-	-	0.043	10.641	105.796
81	-	-	-	-	-	-	0.042	10.960	112.144
82	-	-	-	-	-	-	0.040	11.289	118.872
83	-	-	-	-	-	-	0.039	11.628	126.005
84	-	-	-	-	-	-	0.037	11.976	133.565
85	-	-	-	-	-	-	0.036	12.336	141.579
86	-	-	-	-	-	-	0.034	12.706	150.074
87	-	-	-	-	-	-	0.033	13.087	159.078
88	-	-	-	-	-	-	0.032	13.480	168.623
89	-	-	-	-	-	-	0.030	13.884	178.740
90	-	-	-	-	-	-	0.029	14.300	189.465
91	-	-	-	-	-	-	0.028	14.729	200.832
92	-	-	-	-	-	-	0.027	15.171	212.882
93	-	-	-	-	-	-	0.026	15.627	225.655
94	-	-	-	-	-	-	0.025	16.095	239.195
95	-	-	-	-	-	-	0.024	16.578	253.546
96	-	-	-	-	-	-	0.023	17.076	268.759
97	-	-	-	-	-	-	0.022	17.588	284.885
98	-	-	-	-	-	-	0.021	18.115	301.978
99	-	-	-	-	-	-	0.021	18.659	320.096
100	-	-	-	-	-	-	0.020	19.219	339.302
101	-	-	-	-	-	-	0.019	19.795	359.660
102	-	-	-	-	-	-	0.018	20.389	381.240
103	-	-	-	-	-	-	0.018	21.001	404.114
104	-	-	-	-	-	-	0.017	21.631	428.361
105	-	-	-	-	-	-	0.016	22.280	454.063
106	-	-	-	-	-	-	0.016	22.948	481.306
107	-	-	-	-	-	-	0.015	23.636	510.185
108	-	-	-	-	-	-	0.014	24.346	540.796
109	-	-	-	-	-	-	0.014	25.076	573.244
110	-	-	-	-	-	-	0.013	25.828	607.638
111	-	-	-	-	-	-	0.013	26.603	644.097
112	-	-	-	-	-	-	0.012	27.401	682.742
113	-	-	-	-	-	-	0.012	28.223	723.707
114	-	-	-	-	-	-	0.011	29.070	767.129
115	-	-	-	-	-	-	0.011	29.942	813.157
116	-	-	-	-	-	-	0.011	30.840	861.947
117	-	-	-	-	-	-	0.010	31.765	913.663
118	-	-	-	-	-	-	0.010	32.718	968.483
119	-	-	-	-	-	-	0.009	33.700	1,026.592
120	-	-	-	-	-	-	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (4) * 12
(23) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(24) = (20) * (22) + (21) * (23)
(25) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2)
(26) = (25) * (12)
(27) SECTION 8A, EXHIBIT 6, SHEET 2
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	45	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	12/1/1999	
(15)	**DATE OF FILING**	9/6/2000	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	80	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	13.31	10.16
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	13.31	10.16
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	102,883	78,535
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.039	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.044	-	0.961	1.000	0.961	0.039	0.962	1.030	1.060
2	0.049	-	0.918	1.000	0.918	0.082	0.925	1.061	1.124
3	0.055	-	0.873	1.000	0.873	0.127	0.889	1.093	1.191
4	0.061	-	0.825	1.000	0.825	0.175	0.855	1.126	1.262
5	0.068	-	0.775	1.000	0.775	0.225	0.822	1.159	1.338
6	0.075	-	0.723	1.000	0.723	0.277	0.790	1.194	1.419
7	0.084	-	0.668	1.000	0.668	0.332	0.760	1.230	1.504
8	0.094	-	0.612	1.000	0.612	0.388	0.731	1.267	1.594
9	0.105	-	0.555	1.000	0.555	0.445	0.703	1.305	1.689
10	0.116	-	0.497	1.000	0.497	0.503	0.676	1.344	1.791
11	0.129	-	0.439	1.000	0.439	0.561	0.650	1.384	1.898
12	0.142	-	0.382	1.000	0.382	0.618	0.625	1.426	2.012
13	0.156	-	0.328	1.000	0.328	0.672	0.601	1.469	2.133
14	0.171	-	0.277	1.000	0.277	0.723	0.577	1.513	2.261
15	0.186	-	0.230	1.000	0.230	0.770	0.555	1.558	2.397
16	0.203	-	0.187	1.000	0.187	0.813	0.534	1.605	2.540
17	0.220	-	0.149	1.000	0.149	0.851	0.513	1.653	2.693
18	0.238	-	0.116	1.000	0.116	0.884	0.494	1.702	2.854
19	0.257	-	0.089	1.000	0.089	0.911	0.475	1.754	3.026
20	0.276	-	0.066	1.000	0.066	0.934	0.456	1.806	3.207
21	0.297	-	0.048	1.000	0.048	0.952	0.439	1.860	3.400
22	0.317	-	0.034	1.000	0.034	0.966	0.422	1.916	3.604
23	0.339	-	0.023	1.000	0.023	0.977	0.406	1.974	3.820
24	0.361	-	0.015	1.000	0.015	0.985	0.390	2.033	4.049
25	0.384	-	0.010	1.000	0.010	0.990	0.375	2.094	4.292
26	0.405	-	0.006	1.000	0.006	0.994	0.361	2.157	4.549
27	0.425	-	0.004	1.000	0.004	0.996	0.347	2.221	4.822
28	0.444	-	0.002	1.000	0.002	0.998	0.333	2.288	5.112
29	0.464	-	0.001	1.000	0.001	0.999	0.321	2.357	5.418
30	0.482	-	0.001	1.000	0.001	0.999	0.308	2.427	5.743
31	0.495	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	1.000	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	46		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	12/1/2000		
(15)	**DATE OF FILING**	1/23/2001		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	72	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	22.02	14.89
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	22.02	14.89
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	170,297	115,152
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.017	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.018	-	0.983	1.000	0.983	0.017	0.962	1.030	1.060
2	0.020	-	0.965	1.000	0.965	0.035	0.925	1.061	1.124
3	0.023	-	0.946	1.000	0.946	0.054	0.889	1.093	1.191
4	0.025	-	0.924	1.000	0.924	0.076	0.855	1.126	1.262
5	0.028	-	0.901	1.000	0.901	0.099	0.822	1.159	1.338
6	0.032	-	0.875	1.000	0.875	0.125	0.790	1.194	1.419
7	0.035	-	0.848	1.000	0.848	0.152	0.760	1.230	1.504
8	0.039	-	0.818	1.000	0.818	0.182	0.731	1.267	1.594
9	0.044	-	0.785	1.000	0.785	0.215	0.703	1.305	1.689
10	0.049	-	0.751	1.000	0.751	0.249	0.676	1.344	1.791
11	0.055	-	0.714	1.000	0.714	0.286	0.650	1.384	1.898
12	0.061	-	0.675	1.000	0.675	0.325	0.625	1.426	2.012
13	0.068	-	0.634	1.000	0.634	0.366	0.601	1.469	2.133
14	0.075	-	0.591	1.000	0.591	0.409	0.577	1.513	2.261
15	0.084	-	0.546	1.000	0.546	0.454	0.555	1.558	2.397
16	0.094	-	0.500	1.000	0.500	0.500	0.534	1.605	2.540
17	0.105	-	0.453	1.000	0.453	0.547	0.513	1.653	2.693
18	0.116	-	0.406	1.000	0.406	0.594	0.494	1.702	2.854
19	0.129	-	0.359	1.000	0.359	0.641	0.475	1.754	3.026
20	0.142	-	0.313	1.000	0.313	0.687	0.456	1.806	3.207
21	0.156	-	0.268	1.000	0.268	0.732	0.439	1.860	3.400
22	0.171	-	0.226	1.000	0.226	0.774	0.422	1.916	3.604
23	0.186	-	0.188	1.000	0.188	0.812	0.406	1.974	3.820
24	0.203	-	0.153	1.000	0.153	0.847	0.390	2.033	4.049
25	0.220	-	0.122	1.000	0.122	0.878	0.375	2.094	4.292
26	0.238	-	0.095	1.000	0.095	0.905	0.361	2.157	4.549
27	0.257	-	0.072	1.000	0.072	0.928	0.347	2.221	4.822
28	0.276	-	0.054	1.000	0.054	0.946	0.333	2.288	5.112
29	0.297	-	0.039	1.000	0.039	0.961	0.321	2.357	5.418
30	0.317	-	0.027	1.000	0.027	0.973	0.308	2.427	5.743
31	0.339	-	0.019	1.000	0.019	0.981	0.296	2.500	6.088
32	0.361	-	0.012	1.000	0.012	0.988	0.285	2.575	6.453
33	0.384	-	0.008	1.000	0.008	0.992	0.274	2.652	6.841
34	0.405	-	0.005	1.000	0.005	0.995	0.264	2.732	7.251
35	0.425	-	0.003	1.000	0.003	0.997	0.253	2.814	7.686
36	0.444	-	0.002	1.000	0.002	0.998	0.244	2.898	8.147
37	0.464	-	0.001	1.000	0.001	0.999	0.234	2.985	8.636
38	0.482	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.495	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	1.000	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
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89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
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93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
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99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
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101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
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109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	47		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/26/2005		
(15)	**DATE OF FILING**	11/22/2005		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	54,509	46,408
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	48		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/30/2008		
(15)	**DATE OF FILING**	5/26/2009		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	63	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	35.86	20.75
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	35.86	20.75
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	277,271	160,450
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.007	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.008	-	0.993	1.000	0.993	0.007	0.962	1.030	1.060
2	0.009	-	0.986	1.000	0.986	0.014	0.925	1.061	1.124
3	0.010	-	0.977	1.000	0.977	0.023	0.889	1.093	1.191
4	0.011	-	0.968	1.000	0.968	0.032	0.855	1.126	1.262
5	0.012	-	0.957	1.000	0.957	0.043	0.822	1.159	1.338
6	0.013	-	0.946	1.000	0.946	0.054	0.790	1.194	1.419
7	0.014	-	0.934	1.000	0.934	0.066	0.760	1.230	1.504
8	0.015	-	0.921	1.000	0.921	0.079	0.731	1.267	1.594
9	0.017	-	0.907	1.000	0.907	0.093	0.703	1.305	1.689
10	0.018	-	0.892	1.000	0.892	0.108	0.676	1.344	1.791
11	0.020	-	0.876	1.000	0.876	0.124	0.650	1.384	1.898
12	0.023	-	0.858	1.000	0.858	0.142	0.625	1.426	2.012
13	0.025	-	0.839	1.000	0.839	0.161	0.601	1.469	2.133
14	0.028	-	0.818	1.000	0.818	0.182	0.577	1.513	2.261
15	0.032	-	0.794	1.000	0.794	0.206	0.555	1.558	2.397
16	0.035	-	0.769	1.000	0.769	0.231	0.534	1.605	2.540
17	0.039	-	0.742	1.000	0.742	0.258	0.513	1.653	2.693
18	0.044	-	0.713	1.000	0.713	0.287	0.494	1.702	2.854
19	0.049	-	0.681	1.000	0.681	0.319	0.475	1.754	3.026
20	0.055	-	0.648	1.000	0.648	0.352	0.456	1.806	3.207
21	0.061	-	0.612	1.000	0.612	0.388	0.439	1.860	3.400
22	0.068	-	0.575	1.000	0.575	0.425	0.422	1.916	3.604
23	0.075	-	0.536	1.000	0.536	0.464	0.406	1.974	3.820
24	0.084	-	0.496	1.000	0.496	0.504	0.390	2.033	4.049
25	0.094	-	0.454	1.000	0.454	0.546	0.375	2.094	4.292
26	0.105	-	0.411	1.000	0.411	0.589	0.361	2.157	4.549
27	0.116	-	0.368	1.000	0.368	0.632	0.347	2.221	4.822
28	0.129	-	0.326	1.000	0.326	0.674	0.333	2.288	5.112
29	0.142	-	0.284	1.000	0.284	0.716	0.321	2.357	5.418
30	0.156	-	0.243	1.000	0.243	0.757	0.308	2.427	5.743
31	0.171	-	0.205	1.000	0.205	0.795	0.296	2.500	6.088
32	0.186	-	0.170	1.000	0.170	0.830	0.285	2.575	6.453
33	0.203	-	0.139	1.000	0.139	0.861	0.274	2.652	6.841
34	0.220	-	0.111	1.000	0.111	0.889	0.264	2.732	7.251
35	0.238	-	0.086	1.000	0.086	0.914	0.253	2.814	7.686
36	0.257	-	0.066	1.000	0.066	0.934	0.244	2.898	8.147
37	0.276	-	0.049	1.000	0.049	0.951	0.234	2.985	8.636
38	0.297	-	0.035	1.000	0.035	0.965	0.225	3.075	9.154
39	0.317	-	0.025	1.000	0.025	0.975	0.217	3.167	9.704
40	0.339	-	0.017	1.000	0.017	0.983	0.208	3.262	10.286
41	0.361	-	0.011	1.000	0.011	0.989	0.200	3.360	10.903
42	0.384	-	0.007	1.000	0.007	0.993	0.193	3.461	11.557
43	0.405	-	0.004	1.000	0.004	0.996	0.185	3.565	12.250
44	0.425	-	0.003	1.000	0.003	0.997	0.178	3.671	12.985
45	0.444	-	0.002	1.000	0.002	0.998	0.171	3.782	13.765
46	0.464	-	0.001	1.000	0.001	0.999	0.165	3.895	14.590
47	0.482	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.495	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.500	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	0.500	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	0.500	-	0.000	1.000	0.000	1.000	0.135	4.515	19.525
52	0.500	-	0.000	1.000	0.000	1.000	0.130	4.651	20.697
53	0.500	-	0.000	1.000	0.000	1.000	0.125	4.790	21.939
54	0.500	-	0.000	1.000	0.000	1.000	0.120	4.934	23.255
55	0.500	-	0.000	1.000	0.000	1.000	0.116	5.082	24.650
56	0.500	-	0.000	1.000	0.000	1.000	0.111	5.235	26.129
57	1.000	-	0.000	1.000	0.000	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	49		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/1/1976		
(15)	**DATE OF FILING**	8/1/1976		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	97	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.06	3.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.06	3.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	31,365	28,555
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.220	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.238	-	0.780	1.000	0.780	0.220	0.962	1.030	1.060
2	0.257	-	0.595	1.000	0.595	0.405	0.925	1.061	1.124
3	0.276	-	0.442	1.000	0.442	0.558	0.889	1.093	1.191
4	0.297	-	0.320	1.000	0.320	0.680	0.855	1.126	1.262
5	0.317	-	0.225	1.000	0.225	0.775	0.822	1.159	1.338
6	0.339	-	0.154	1.000	0.154	0.846	0.790	1.194	1.419
7	0.361	-	0.102	1.000	0.102	0.898	0.760	1.230	1.504
8	0.384	-	0.065	1.000	0.065	0.935	0.731	1.267	1.594
9	0.405	-	0.040	1.000	0.040	0.960	0.703	1.305	1.689
10	0.425	-	0.024	1.000	0.024	0.976	0.676	1.344	1.791
11	0.444	-	0.014	1.000	0.014	0.986	0.650	1.384	1.898
12	0.464	-	0.008	1.000	0.008	0.992	0.625	1.426	2.012
13	0.482	-	0.004	1.000	0.004	0.996	0.601	1.469	2.133
14	0.495	-	0.002	1.000	0.002	0.998	0.577	1.513	2.261
15	0.500	-	0.001	1.000	0.001	0.999	0.555	1.558	2.397
16	0.500	-	0.001	1.000	0.001	0.999	0.534	1.605	2.540
17	0.500	-	0.000	1.000	0.000	1.000	0.513	1.653	2.693
18	0.500	-	0.000	1.000	0.000	1.000	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	1.000	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	-	-	-	1.000	-	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	50	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	10/1/1981	
(15)	**DATE OF FILING**	3/22/1982	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	83	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.84	8.61
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.84	8.61
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	83,803	66,582
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.061	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.068	-	0.888	1.000	0.888	0.112	0.925	1.061	1.124
3	0.075	-	0.827	1.000	0.827	0.173	0.889	1.093	1.191
4	0.084	-	0.765	1.000	0.765	0.235	0.855	1.126	1.262
5	0.094	-	0.701	1.000	0.701	0.299	0.822	1.159	1.338
6	0.105	-	0.635	1.000	0.635	0.365	0.790	1.194	1.419
7	0.116	-	0.569	1.000	0.569	0.431	0.760	1.230	1.504
8	0.129	-	0.502	1.000	0.502	0.498	0.731	1.267	1.594
9	0.142	-	0.438	1.000	0.438	0.562	0.703	1.305	1.689
10	0.156	-	0.376	1.000	0.376	0.624	0.676	1.344	1.791
11	0.171	-	0.317	1.000	0.317	0.683	0.650	1.384	1.898
12	0.186	-	0.263	1.000	0.263	0.737	0.625	1.426	2.012
13	0.203	-	0.214	1.000	0.214	0.786	0.601	1.469	2.133
14	0.220	-	0.171	1.000	0.171	0.829	0.577	1.513	2.261
15	0.238	-	0.133	1.000	0.133	0.867	0.555	1.558	2.397
16	0.257	-	0.102	1.000	0.102	0.898	0.534	1.605	2.540
17	0.276	-	0.075	1.000	0.075	0.925	0.513	1.653	2.693
18	0.297	-	0.055	1.000	0.055	0.945	0.494	1.702	2.854
19	0.317	-	0.038	1.000	0.038	0.962	0.475	1.754	3.026
20	0.339	-	0.026	1.000	0.026	0.974	0.456	1.806	3.207
21	0.361	-	0.017	1.000	0.017	0.983	0.439	1.860	3.400
22	0.384	-	0.011	1.000	0.011	0.989	0.422	1.916	3.604
23	0.405	-	0.007	1.000	0.007	0.993	0.406	1.974	3.820
24	0.425	-	0.004	1.000	0.004	0.996	0.390	2.033	4.049
25	0.444	-	0.002	1.000	0.002	0.998	0.375	2.094	4.292
26	0.464	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.482	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.495	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	51		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1981		
(15)	**DATE OF FILING**	3/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	50,719	43,613
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	52	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	11/1/1978	
(15)	**DATE OF FILING**	6/8/1979	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	87	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	53		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/1/1978		
(15)	**DATE OF FILING**	4/8/1978		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	49	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	68.93	30.39
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	68.93	30.39
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	532,969	235,024
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.001	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.001	-	0.999	1.000	0.999	0.001	0.962	1.030	1.060
2	0.002	-	0.997	1.000	0.997	0.003	0.925	1.061	1.124
3	0.002	-	0.996	1.000	0.996	0.004	0.889	1.093	1.191
4	0.002	-	0.994	1.000	0.994	0.006	0.855	1.126	1.262
5	0.002	-	0.992	1.000	0.992	0.008	0.822	1.159	1.338
6	0.002	-	0.990	1.000	0.990	0.010	0.790	1.194	1.419
7	0.003	-	0.988	1.000	0.988	0.012	0.760	1.230	1.504
8	0.003	-	0.985	1.000	0.985	0.015	0.731	1.267	1.594
9	0.003	-	0.982	1.000	0.982	0.018	0.703	1.305	1.689
10	0.004	-	0.979	1.000	0.979	0.021	0.676	1.344	1.791
11	0.004	-	0.975	1.000	0.975	0.025	0.650	1.384	1.898
12	0.005	-	0.971	1.000	0.971	0.029	0.625	1.426	2.012
13	0.006	-	0.966	1.000	0.966	0.034	0.601	1.469	2.133
14	0.007	-	0.960	1.000	0.960	0.040	0.577	1.513	2.261
15	0.008	-	0.954	1.000	0.954	0.046	0.555	1.558	2.397
16	0.009	-	0.947	1.000	0.947	0.053	0.534	1.605	2.540
17	0.010	-	0.938	1.000	0.938	0.062	0.513	1.653	2.693
18	0.011	-	0.929	1.000	0.929	0.071	0.494	1.702	2.854
19	0.012	-	0.919	1.000	0.919	0.081	0.475	1.754	3.026
20	0.013	-	0.909	1.000	0.909	0.091	0.456	1.806	3.207
21	0.014	-	0.897	1.000	0.897	0.103	0.439	1.860	3.400
22	0.015	-	0.885	1.000	0.885	0.115	0.422	1.916	3.604
23	0.017	-	0.871	1.000	0.871	0.129	0.406	1.974	3.820
24	0.018	-	0.857	1.000	0.857	0.143	0.390	2.033	4.049
25	0.020	-	0.841	1.000	0.841	0.159	0.375	2.094	4.292
26	0.023	-	0.824	1.000	0.824	0.176	0.361	2.157	4.549
27	0.025	-	0.806	1.000	0.806	0.194	0.347	2.221	4.822
28	0.028	-	0.785	1.000	0.785	0.215	0.333	2.288	5.112
29	0.032	-	0.763	1.000	0.763	0.237	0.321	2.357	5.418
30	0.035	-	0.739	1.000	0.739	0.261	0.308	2.427	5.743
31	0.039	-	0.713	1.000	0.713	0.287	0.296	2.500	6.088
32	0.044	-	0.684	1.000	0.684	0.316	0.285	2.575	6.453
33	0.049	-	0.654	1.000	0.654	0.346	0.274	2.652	6.841
34	0.055	-	0.622	1.000	0.622	0.378	0.264	2.732	7.251
35	0.061	-	0.588	1.000	0.588	0.412	0.253	2.814	7.686
36	0.068	-	0.552	1.000	0.552	0.448	0.244	2.898	8.147
37	0.075	-	0.515	1.000	0.515	0.485	0.234	2.985	8.636
38	0.084	-	0.476	1.000	0.476	0.524	0.225	3.075	9.154
39	0.094	-	0.436	1.000	0.436	0.564	0.217	3.167	9.704
40	0.105	-	0.395	1.000	0.395	0.605	0.208	3.262	10.286
41	0.116	-	0.354	1.000	0.354	0.646	0.200	3.360	10.903
42	0.129	-	0.313	1.000	0.313	0.687	0.193	3.461	11.557
43	0.142	-	0.272	1.000	0.272	0.728	0.185	3.565	12.250
44	0.156	-	0.234	1.000	0.234	0.766	0.178	3.671	12.985
45	0.171	-	0.197	1.000	0.197	0.803	0.171	3.782	13.765
46	0.186	-	0.164	1.000	0.164	0.836	0.165	3.895	14.590
47	0.203	-	0.133	1.000	0.133	0.867	0.158	4.012	15.466
48	0.220	-	0.106	1.000	0.106	0.894	0.152	4.132	16.394
49	0.238	-	0.083	1.000	0.083	0.917	0.146	4.256	17.378
50	0.257	-	0.063	1.000	0.063	0.937	0.141	4.384	18.420
51	0.276	-	0.047	1.000	0.047	0.953	0.135	4.515	19.525
52	0.297	-	0.034	1.000	0.034	0.966	0.130	4.651	20.697
53	0.317	-	0.024	1.000	0.024	0.976	0.125	4.790	21.939
54	0.339	-	0.016	1.000	0.016	0.984	0.120	4.934	23.255
55	0.361	-	0.011	1.000	0.011	0.989	0.116	5.082	24.650
56	0.384	-	0.007	1.000	0.007	0.993	0.111	5.235	26.129
57	0.405	-	0.004	1.000	0.004	0.996	0.107	5.392	27.697
58	0.425	-	0.003	1.000	0.003	0.997	0.103	5.553	29.359
59	0.444	-	0.001	1.000	0.001	0.999	0.099	5.720	31.120
60	0.464	-	0.001	1.000	0.001	0.999	0.095	5.892	32.988
61	0.482	-	0.000	1.000	0.000	1.000	0.091	6.068	34.967
62	0.495	-	0.000	1.000	0.000	1.000	0.088	6.250	37.065
63	0.500	-	0.000	1.000	0.000	1.000	0.085	6.438	39.289
64	0.500	-	0.000	1.000	0.000	1.000	0.081	6.631	41.646
65	0.500	-	0.000	1.000	0.000	1.000	0.078	6.830	44.145
66	0.500	-	0.000	1.000	0.000	1.000	0.075	7.035	46.794
67	0.500	-	0.000	1.000	0.000	1.000	0.072	7.246	49.601
68	0.500	-	0.000	1.000	0.000	1.000	0.069	7.463	52.577
69	0.500	-	0.000	1.000	0.000	1.000	0.067	7.687	55.732
70	0.500	-	0.000	1.000	0.000	1.000	0.064	7.918	59.076
71	1.000	-	0.000	1.000	0.000	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	54	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	5/1/1979	
(15)	**DATE OF FILING**	5/18/1979	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	84	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.11	8.13
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.11	8.13
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	78,141	62,869
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.061	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.068	-	0.939	1.000	0.939	0.061	0.962	1.030	1.060
2	0.075	-	0.875	1.000	0.875	0.125	0.925	1.061	1.124
3	0.084	-	0.809	1.000	0.809	0.191	0.889	1.093	1.191
4	0.094	-	0.741	1.000	0.741	0.259	0.855	1.126	1.262
5	0.105	-	0.672	1.000	0.672	0.328	0.822	1.159	1.338
6	0.116	-	0.602	1.000	0.602	0.398	0.790	1.194	1.419
7	0.129	-	0.532	1.000	0.532	0.468	0.760	1.230	1.504
8	0.142	-	0.463	1.000	0.463	0.537	0.731	1.267	1.594
9	0.156	-	0.397	1.000	0.397	0.603	0.703	1.305	1.689
10	0.171	-	0.335	1.000	0.335	0.665	0.676	1.344	1.791
11	0.186	-	0.278	1.000	0.278	0.722	0.650	1.384	1.898
12	0.203	-	0.226	1.000	0.226	0.774	0.625	1.426	2.012
13	0.220	-	0.181	1.000	0.181	0.819	0.601	1.469	2.133
14	0.238	-	0.141	1.000	0.141	0.859	0.577	1.513	2.261
15	0.257	-	0.107	1.000	0.107	0.893	0.555	1.558	2.397
16	0.276	-	0.080	1.000	0.080	0.920	0.534	1.605	2.540
17	0.297	-	0.058	1.000	0.058	0.942	0.513	1.653	2.693
18	0.317	-	0.041	1.000	0.041	0.959	0.494	1.702	2.854
19	0.339	-	0.028	1.000	0.028	0.972	0.475	1.754	3.026
20	0.361	-	0.018	1.000	0.018	0.982	0.456	1.806	3.207
21	0.384	-	0.012	1.000	0.012	0.988	0.439	1.860	3.400
22	0.405	-	0.007	1.000	0.007	0.993	0.422	1.916	3.604
23	0.425	-	0.004	1.000	0.004	0.996	0.406	1.974	3.820
24	0.444	-	0.002	1.000	0.002	0.998	0.390	2.033	4.049
25	0.464	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.482	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.495	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	1.000	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
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67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
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83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
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104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
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116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	55		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	6/1/1980		
(15)	**DATE OF FILING**	11/23/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	50,719	43,613
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	56		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1980		
(15)	**DATE OF FILING**	12/4/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	85	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.41	7.67
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.41	7.67
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	72,797	59,287
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.068	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.075	-	0.932	1.000	0.932	0.068	0.962	1.030	1.060
2	0.084	-	0.862	1.000	0.862	0.138	0.925	1.061	1.124
3	0.094	-	0.790	1.000	0.790	0.210	0.889	1.093	1.191
4	0.105	-	0.716	1.000	0.716	0.284	0.855	1.126	1.262
5	0.116	-	0.641	1.000	0.641	0.359	0.822	1.159	1.338
6	0.129	-	0.566	1.000	0.566	0.434	0.790	1.194	1.419
7	0.142	-	0.493	1.000	0.493	0.507	0.760	1.230	1.504
8	0.156	-	0.423	1.000	0.423	0.577	0.731	1.267	1.594
9	0.171	-	0.357	1.000	0.357	0.643	0.703	1.305	1.689
10	0.186	-	0.296	1.000	0.296	0.704	0.676	1.344	1.791
11	0.203	-	0.241	1.000	0.241	0.759	0.650	1.384	1.898
12	0.220	-	0.192	1.000	0.192	0.808	0.625	1.426	2.012
13	0.238	-	0.150	1.000	0.150	0.850	0.601	1.469	2.133
14	0.257	-	0.114	1.000	0.114	0.886	0.577	1.513	2.261
15	0.276	-	0.085	1.000	0.085	0.915	0.555	1.558	2.397
16	0.297	-	0.062	1.000	0.062	0.938	0.534	1.605	2.540
17	0.317	-	0.043	1.000	0.043	0.957	0.513	1.653	2.693
18	0.339	-	0.030	1.000	0.030	0.970	0.494	1.702	2.854
19	0.361	-	0.020	1.000	0.020	0.980	0.475	1.754	3.026
20	0.384	-	0.012	1.000	0.012	0.988	0.456	1.806	3.207
21	0.405	-	0.008	1.000	0.008	0.992	0.439	1.860	3.400
22	0.425	-	0.005	1.000	0.005	0.995	0.422	1.916	3.604
23	0.444	-	0.003	1.000	0.003	0.997	0.406	1.974	3.820
24	0.464	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.482	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.495	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	57		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1979		
(15)	**DATE OF FILING**	12/11/1979		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	50,719	43,613
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
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120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
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(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
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(13) PROVIDED BY BWC
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(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	58		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	1/1/1979		
(15)	**DATE OF FILING**	1/25/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	83	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.84	8.61
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.84	8.61
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	83,803	66,582
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.061	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.068	-	0.888	1.000	0.888	0.112	0.925	1.061	1.124
3	0.075	-	0.827	1.000	0.827	0.173	0.889	1.093	1.191
4	0.084	-	0.765	1.000	0.765	0.235	0.855	1.126	1.262
5	0.094	-	0.701	1.000	0.701	0.299	0.822	1.159	1.338
6	0.105	-	0.635	1.000	0.635	0.365	0.790	1.194	1.419
7	0.116	-	0.569	1.000	0.569	0.431	0.760	1.230	1.504
8	0.129	-	0.502	1.000	0.502	0.498	0.731	1.267	1.594
9	0.142	-	0.438	1.000	0.438	0.562	0.703	1.305	1.689
10	0.156	-	0.376	1.000	0.376	0.624	0.676	1.344	1.791
11	0.171	-	0.317	1.000	0.317	0.683	0.650	1.384	1.898
12	0.186	-	0.263	1.000	0.263	0.737	0.625	1.426	2.012
13	0.203	-	0.214	1.000	0.214	0.786	0.601	1.469	2.133
14	0.220	-	0.171	1.000	0.171	0.829	0.577	1.513	2.261
15	0.238	-	0.133	1.000	0.133	0.867	0.555	1.558	2.397
16	0.257	-	0.102	1.000	0.102	0.898	0.534	1.605	2.540
17	0.276	-	0.075	1.000	0.075	0.925	0.513	1.653	2.693
18	0.297	-	0.055	1.000	0.055	0.945	0.494	1.702	2.854
19	0.317	-	0.038	1.000	0.038	0.962	0.475	1.754	3.026
20	0.339	-	0.026	1.000	0.026	0.974	0.456	1.806	3.207
21	0.361	-	0.017	1.000	0.017	0.983	0.439	1.860	3.400
22	0.384	-	0.011	1.000	0.011	0.989	0.422	1.916	3.604
23	0.405	-	0.007	1.000	0.007	0.993	0.406	1.974	3.820
24	0.425	-	0.004	1.000	0.004	0.996	0.390	2.033	4.049
25	0.444	-	0.002	1.000	0.002	0.998	0.375	2.094	4.292
26	0.464	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.482	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.495	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	59		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/1/1978		
(15)	**DATE OF FILING**	2/18/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	94	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.96	4.41
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.96	4.41
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	38,320	34,131
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.171	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.186	-	0.829	1.000	0.829	0.171	0.962	1.030	1.060
2	0.203	-	0.675	1.000	0.675	0.325	0.925	1.061	1.124
3	0.220	-	0.538	1.000	0.538	0.462	0.889	1.093	1.191
4	0.238	-	0.420	1.000	0.420	0.580	0.855	1.126	1.262
5	0.257	-	0.320	1.000	0.320	0.680	0.822	1.159	1.338
6	0.276	-	0.238	1.000	0.238	0.762	0.790	1.194	1.419
7	0.297	-	0.172	1.000	0.172	0.828	0.760	1.230	1.504
8	0.317	-	0.121	1.000	0.121	0.879	0.731	1.267	1.594
9	0.339	-	0.083	1.000	0.083	0.917	0.703	1.305	1.689
10	0.361	-	0.055	1.000	0.055	0.945	0.676	1.344	1.791
11	0.384	-	0.035	1.000	0.035	0.965	0.650	1.384	1.898
12	0.405	-	0.022	1.000	0.022	0.978	0.625	1.426	2.012
13	0.425	-	0.013	1.000	0.013	0.987	0.601	1.469	2.133
14	0.444	-	0.007	1.000	0.007	0.993	0.577	1.513	2.261
15	0.464	-	0.004	1.000	0.004	0.996	0.555	1.558	2.397
16	0.482	-	0.002	1.000	0.002	0.998	0.534	1.605	2.540
17	0.495	-	0.001	1.000	0.001	0.999	0.513	1.653	2.693
18	0.500	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	1.000	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	60		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1977		
(15)	**DATE OF FILING**	2/25/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	73	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	20.75	14.26
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	20.75	14.26
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	160,479	110,283
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.018	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.020	-	0.982	1.000	0.982	0.018	0.962	1.030	1.060
2	0.023	-	0.962	1.000	0.962	0.038	0.925	1.061	1.124
3	0.025	-	0.940	1.000	0.940	0.060	0.889	1.093	1.191
4	0.028	-	0.916	1.000	0.916	0.084	0.855	1.126	1.262
5	0.032	-	0.890	1.000	0.890	0.110	0.822	1.159	1.338
6	0.035	-	0.862	1.000	0.862	0.138	0.790	1.194	1.419
7	0.039	-	0.831	1.000	0.831	0.169	0.760	1.230	1.504
8	0.044	-	0.799	1.000	0.799	0.201	0.731	1.267	1.594
9	0.049	-	0.763	1.000	0.763	0.237	0.703	1.305	1.689
10	0.055	-	0.726	1.000	0.726	0.274	0.676	1.344	1.791
11	0.061	-	0.686	1.000	0.686	0.314	0.650	1.384	1.898
12	0.068	-	0.644	1.000	0.644	0.356	0.625	1.426	2.012
13	0.075	-	0.601	1.000	0.601	0.399	0.601	1.469	2.133
14	0.084	-	0.555	1.000	0.555	0.445	0.577	1.513	2.261
15	0.094	-	0.509	1.000	0.509	0.491	0.555	1.558	2.397
16	0.105	-	0.461	1.000	0.461	0.539	0.534	1.605	2.540
17	0.116	-	0.413	1.000	0.413	0.587	0.513	1.653	2.693
18	0.129	-	0.365	1.000	0.365	0.635	0.494	1.702	2.854
19	0.142	-	0.318	1.000	0.318	0.682	0.475	1.754	3.026
20	0.156	-	0.273	1.000	0.273	0.727	0.456	1.806	3.207
21	0.171	-	0.230	1.000	0.230	0.770	0.439	1.860	3.400
22	0.186	-	0.191	1.000	0.191	0.809	0.422	1.916	3.604
23	0.203	-	0.155	1.000	0.155	0.845	0.406	1.974	3.820
24	0.220	-	0.124	1.000	0.124	0.876	0.390	2.033	4.049
25	0.238	-	0.097	1.000	0.097	0.903	0.375	2.094	4.292
26	0.257	-	0.074	1.000	0.074	0.926	0.361	2.157	4.549
27	0.276	-	0.055	1.000	0.055	0.945	0.347	2.221	4.822
28	0.297	-	0.040	1.000	0.040	0.960	0.333	2.288	5.112
29	0.317	-	0.028	1.000	0.028	0.972	0.321	2.357	5.418
30	0.339	-	0.019	1.000	0.019	0.981	0.308	2.427	5.743
31	0.361	-	0.013	1.000	0.013	0.987	0.296	2.500	6.088
32	0.384	-	0.008	1.000	0.008	0.992	0.285	2.575	6.453
33	0.405	-	0.005	1.000	0.005	0.995	0.274	2.652	6.841
34	0.425	-	0.003	1.000	0.003	0.997	0.264	2.732	7.251
35	0.444	-	0.002	1.000	0.002	0.998	0.253	2.814	7.686
36	0.464	-	0.001	1.000	0.001	0.999	0.244	2.898	8.147
37	0.482	-	0.001	1.000	0.001	0.999	0.234	2.985	8.636
38	0.495	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	1.000	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
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86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	61		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/1/1981		
(15)	**DATE OF FILING**	5/26/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	89	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	7.05	6.00
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	7.05	6.00
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	54,509	46,408
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.105	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.116	-	0.895	1.000	0.895	0.105	0.962	1.030	1.060
2	0.129	-	0.791	1.000	0.791	0.209	0.925	1.061	1.124
3	0.142	-	0.689	1.000	0.689	0.311	0.889	1.093	1.191
4	0.156	-	0.592	1.000	0.592	0.408	0.855	1.126	1.262
5	0.171	-	0.499	1.000	0.499	0.501	0.822	1.159	1.338
6	0.186	-	0.414	1.000	0.414	0.586	0.790	1.194	1.419
7	0.203	-	0.337	1.000	0.337	0.663	0.760	1.230	1.504
8	0.220	-	0.269	1.000	0.269	0.731	0.731	1.267	1.594
9	0.238	-	0.210	1.000	0.210	0.790	0.703	1.305	1.689
10	0.257	-	0.160	1.000	0.160	0.840	0.676	1.344	1.791
11	0.276	-	0.119	1.000	0.119	0.881	0.650	1.384	1.898
12	0.297	-	0.086	1.000	0.086	0.914	0.625	1.426	2.012
13	0.317	-	0.060	1.000	0.060	0.940	0.601	1.469	2.133
14	0.339	-	0.041	1.000	0.041	0.959	0.577	1.513	2.261
15	0.361	-	0.027	1.000	0.027	0.973	0.555	1.558	2.397
16	0.384	-	0.017	1.000	0.017	0.983	0.534	1.605	2.540
17	0.405	-	0.011	1.000	0.011	0.989	0.513	1.653	2.693
18	0.425	-	0.006	1.000	0.006	0.994	0.494	1.702	2.854
19	0.444	-	0.004	1.000	0.004	0.996	0.475	1.754	3.026
20	0.464	-	0.002	1.000	0.002	0.998	0.456	1.806	3.207
21	0.482	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.495	-	0.001	1.000	0.001	0.999	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	1.000	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	62		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	8/15/1972		
(15)	**DATE OF FILING**	5/7/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	85	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.41	7.67
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.41	7.67
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	72,797	59,287
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.068	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.075	-	0.932	1.000	0.932	0.068	0.962	1.030	1.060
2	0.084	-	0.862	1.000	0.862	0.138	0.925	1.061	1.124
3	0.094	-	0.790	1.000	0.790	0.210	0.889	1.093	1.191
4	0.105	-	0.716	1.000	0.716	0.284	0.855	1.126	1.262
5	0.116	-	0.641	1.000	0.641	0.359	0.822	1.159	1.338
6	0.129	-	0.566	1.000	0.566	0.434	0.790	1.194	1.419
7	0.142	-	0.493	1.000	0.493	0.507	0.760	1.230	1.504
8	0.156	-	0.423	1.000	0.423	0.577	0.731	1.267	1.594
9	0.171	-	0.357	1.000	0.357	0.643	0.703	1.305	1.689
10	0.186	-	0.296	1.000	0.296	0.704	0.676	1.344	1.791
11	0.203	-	0.241	1.000	0.241	0.759	0.650	1.384	1.898
12	0.220	-	0.192	1.000	0.192	0.808	0.625	1.426	2.012
13	0.238	-	0.150	1.000	0.150	0.850	0.601	1.469	2.133
14	0.257	-	0.114	1.000	0.114	0.886	0.577	1.513	2.261
15	0.276	-	0.085	1.000	0.085	0.915	0.555	1.558	2.397
16	0.297	-	0.062	1.000	0.062	0.938	0.534	1.605	2.540
17	0.317	-	0.043	1.000	0.043	0.957	0.513	1.653	2.693
18	0.339	-	0.030	1.000	0.030	0.970	0.494	1.702	2.854
19	0.361	-	0.020	1.000	0.020	0.980	0.475	1.754	3.026
20	0.384	-	0.012	1.000	0.012	0.988	0.456	1.806	3.207
21	0.405	-	0.008	1.000	0.008	0.992	0.439	1.860	3.400
22	0.425	-	0.005	1.000	0.005	0.995	0.422	1.916	3.604
23	0.444	-	0.003	1.000	0.003	0.997	0.406	1.974	3.820
24	0.464	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.482	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.495	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	63		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/17/1973		
(15)	**DATE OF FILING**	5/21/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	87	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	64		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	5/1/1976		
(15)	**DATE OF FILING**	1/4/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	94	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.96	4.41
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.96	4.41
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	38,320	34,131
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.171	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.186	-	0.829	1.000	0.829	0.171	0.962	1.030	1.060
2	0.203	-	0.675	1.000	0.675	0.325	0.925	1.061	1.124
3	0.220	-	0.538	1.000	0.538	0.462	0.889	1.093	1.191
4	0.238	-	0.420	1.000	0.420	0.580	0.855	1.126	1.262
5	0.257	-	0.320	1.000	0.320	0.680	0.822	1.159	1.338
6	0.276	-	0.238	1.000	0.238	0.762	0.790	1.194	1.419
7	0.297	-	0.172	1.000	0.172	0.828	0.760	1.230	1.504
8	0.317	-	0.121	1.000	0.121	0.879	0.731	1.267	1.594
9	0.339	-	0.083	1.000	0.083	0.917	0.703	1.305	1.689
10	0.361	-	0.055	1.000	0.055	0.945	0.676	1.344	1.791
11	0.384	-	0.035	1.000	0.035	0.965	0.650	1.384	1.898
12	0.405	-	0.022	1.000	0.022	0.978	0.625	1.426	2.012
13	0.425	-	0.013	1.000	0.013	0.987	0.601	1.469	2.133
14	0.444	-	0.007	1.000	0.007	0.993	0.577	1.513	2.261
15	0.464	-	0.004	1.000	0.004	0.996	0.555	1.558	2.397
16	0.482	-	0.002	1.000	0.002	0.998	0.534	1.605	2.540
17	0.495	-	0.001	1.000	0.001	0.999	0.513	1.653	2.693
18	0.500	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	1.000	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	65		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/1/1975		
(15)	**DATE OF FILING**	6/17/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	85	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.41	7.67
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.41	7.67
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	72,797	59,287
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.068	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.075	-	0.932	1.000	0.932	0.068	0.962	1.030	1.060
2	0.084	-	0.862	1.000	0.862	0.138	0.925	1.061	1.124
3	0.094	-	0.790	1.000	0.790	0.210	0.889	1.093	1.191
4	0.105	-	0.716	1.000	0.716	0.284	0.855	1.126	1.262
5	0.116	-	0.641	1.000	0.641	0.359	0.822	1.159	1.338
6	0.129	-	0.566	1.000	0.566	0.434	0.790	1.194	1.419
7	0.142	-	0.493	1.000	0.493	0.507	0.760	1.230	1.504
8	0.156	-	0.423	1.000	0.423	0.577	0.731	1.267	1.594
9	0.171	-	0.357	1.000	0.357	0.643	0.703	1.305	1.689
10	0.186	-	0.296	1.000	0.296	0.704	0.676	1.344	1.791
11	0.203	-	0.241	1.000	0.241	0.759	0.650	1.384	1.898
12	0.220	-	0.192	1.000	0.192	0.808	0.625	1.426	2.012
13	0.238	-	0.150	1.000	0.150	0.850	0.601	1.469	2.133
14	0.257	-	0.114	1.000	0.114	0.886	0.577	1.513	2.261
15	0.276	-	0.085	1.000	0.085	0.915	0.555	1.558	2.397
16	0.297	-	0.062	1.000	0.062	0.938	0.534	1.605	2.540
17	0.317	-	0.043	1.000	0.043	0.957	0.513	1.653	2.693
18	0.339	-	0.030	1.000	0.030	0.970	0.494	1.702	2.854
19	0.361	-	0.020	1.000	0.020	0.980	0.475	1.754	3.026
20	0.384	-	0.012	1.000	0.012	0.988	0.456	1.806	3.207
21	0.405	-	0.008	1.000	0.008	0.992	0.439	1.860	3.400
22	0.425	-	0.005	1.000	0.005	0.995	0.422	1.916	3.604
23	0.444	-	0.003	1.000	0.003	0.997	0.406	1.974	3.820
24	0.464	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.482	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.495	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
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54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
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70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
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86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
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105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
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117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	66		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	5/29/1977		
(15)	**DATE OF FILING**	8/19/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	87	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	67	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	4/1/1980	
(15)	**DATE OF FILING**	12/4/1980	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	87	F
(17)	**CLAIMANT 2 (y)**		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	68		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	10/20/1980		
(15)	**DATE OF FILING**	12/12/1980		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	83	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	10.84	8.61
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	10.84	8.61
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	83,803	66,582
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.055	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.061	-	0.945	1.000	0.945	0.055	0.962	1.030	1.060
2	0.068	-	0.888	1.000	0.888	0.112	0.925	1.061	1.124
3	0.075	-	0.827	1.000	0.827	0.173	0.889	1.093	1.191
4	0.084	-	0.765	1.000	0.765	0.235	0.855	1.126	1.262
5	0.094	-	0.701	1.000	0.701	0.299	0.822	1.159	1.338
6	0.105	-	0.635	1.000	0.635	0.365	0.790	1.194	1.419
7	0.116	-	0.569	1.000	0.569	0.431	0.760	1.230	1.504
8	0.129	-	0.502	1.000	0.502	0.498	0.731	1.267	1.594
9	0.142	-	0.438	1.000	0.438	0.562	0.703	1.305	1.689
10	0.156	-	0.376	1.000	0.376	0.624	0.676	1.344	1.791
11	0.171	-	0.317	1.000	0.317	0.683	0.650	1.384	1.898
12	0.186	-	0.263	1.000	0.263	0.737	0.625	1.426	2.012
13	0.203	-	0.214	1.000	0.214	0.786	0.601	1.469	2.133
14	0.220	-	0.171	1.000	0.171	0.829	0.577	1.513	2.261
15	0.238	-	0.133	1.000	0.133	0.867	0.555	1.558	2.397
16	0.257	-	0.102	1.000	0.102	0.898	0.534	1.605	2.540
17	0.276	-	0.075	1.000	0.075	0.925	0.513	1.653	2.693
18	0.297	-	0.055	1.000	0.055	0.945	0.494	1.702	2.854
19	0.317	-	0.038	1.000	0.038	0.962	0.475	1.754	3.026
20	0.339	-	0.026	1.000	0.026	0.974	0.456	1.806	3.207
21	0.361	-	0.017	1.000	0.017	0.983	0.439	1.860	3.400
22	0.384	-	0.011	1.000	0.011	0.989	0.422	1.916	3.604
23	0.405	-	0.007	1.000	0.007	0.993	0.406	1.974	3.820
24	0.425	-	0.004	1.000	0.004	0.996	0.390	2.033	4.049
25	0.444	-	0.002	1.000	0.002	0.998	0.375	2.094	4.292
26	0.464	-	0.001	1.000	0.001	0.999	0.361	2.157	4.549
27	0.482	-	0.001	1.000	0.001	0.999	0.347	2.221	4.822
28	0.495	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	1.000	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
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75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
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78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
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(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
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(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	69		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/8/1980		
(15)	**DATE OF FILING**	1/6/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	75	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	18.37	13.03
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	18.37	13.03
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	142,057	100,751
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.023	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.025	-	0.977	1.000	0.977	0.023	0.962	1.030	1.060
2	0.028	-	0.953	1.000	0.953	0.047	0.925	1.061	1.124
3	0.032	-	0.926	1.000	0.926	0.074	0.889	1.093	1.191
4	0.035	-	0.896	1.000	0.896	0.104	0.855	1.126	1.262
5	0.039	-	0.864	1.000	0.864	0.136	0.822	1.159	1.338
6	0.044	-	0.830	1.000	0.830	0.170	0.790	1.194	1.419
7	0.049	-	0.794	1.000	0.794	0.206	0.760	1.230	1.504
8	0.055	-	0.755	1.000	0.755	0.245	0.731	1.267	1.594
9	0.061	-	0.713	1.000	0.713	0.287	0.703	1.305	1.689
10	0.068	-	0.670	1.000	0.670	0.330	0.676	1.344	1.791
11	0.075	-	0.625	1.000	0.625	0.375	0.650	1.384	1.898
12	0.084	-	0.578	1.000	0.578	0.422	0.625	1.426	2.012
13	0.094	-	0.529	1.000	0.529	0.471	0.601	1.469	2.133
14	0.105	-	0.479	1.000	0.479	0.521	0.577	1.513	2.261
15	0.116	-	0.429	1.000	0.429	0.571	0.555	1.558	2.397
16	0.129	-	0.379	1.000	0.379	0.621	0.534	1.605	2.540
17	0.142	-	0.330	1.000	0.330	0.670	0.513	1.653	2.693
18	0.156	-	0.284	1.000	0.284	0.716	0.494	1.702	2.854
19	0.171	-	0.239	1.000	0.239	0.761	0.475	1.754	3.026
20	0.186	-	0.199	1.000	0.199	0.801	0.456	1.806	3.207
21	0.203	-	0.162	1.000	0.162	0.838	0.439	1.860	3.400
22	0.220	-	0.129	1.000	0.129	0.871	0.422	1.916	3.604
23	0.238	-	0.101	1.000	0.101	0.899	0.406	1.974	3.820
24	0.257	-	0.077	1.000	0.077	0.923	0.390	2.033	4.049
25	0.276	-	0.057	1.000	0.057	0.943	0.375	2.094	4.292
26	0.297	-	0.041	1.000	0.041	0.959	0.361	2.157	4.549
27	0.317	-	0.029	1.000	0.029	0.971	0.347	2.221	4.822
28	0.339	-	0.020	1.000	0.020	0.980	0.333	2.288	5.112
29	0.361	-	0.013	1.000	0.013	0.987	0.321	2.357	5.418
30	0.384	-	0.008	1.000	0.008	0.992	0.308	2.427	5.743
31	0.405	-	0.005	1.000	0.005	0.995	0.296	2.500	6.088
32	0.425	-	0.003	1.000	0.003	0.997	0.285	2.575	6.453
33	0.444	-	0.002	1.000	0.002	0.998	0.274	2.652	6.841
34	0.464	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.482	-	0.001	1.000	0.001	0.999	0.253	2.814	7.686
36	0.495	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	1.000	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	70		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	6/1/1978		
(15)	**DATE OF FILING**	1/29/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	97	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	4.06	3.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	4.06	3.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	31,365	28,555
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.220	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.238	-	0.780	1.000	0.780	0.220	0.962	1.030	1.060
2	0.257	-	0.595	1.000	0.595	0.405	0.925	1.061	1.124
3	0.276	-	0.442	1.000	0.442	0.558	0.889	1.093	1.191
4	0.297	-	0.320	1.000	0.320	0.680	0.855	1.126	1.262
5	0.317	-	0.225	1.000	0.225	0.775	0.822	1.159	1.338
6	0.339	-	0.154	1.000	0.154	0.846	0.790	1.194	1.419
7	0.361	-	0.102	1.000	0.102	0.898	0.760	1.230	1.504
8	0.384	-	0.065	1.000	0.065	0.935	0.731	1.267	1.594
9	0.405	-	0.040	1.000	0.040	0.960	0.703	1.305	1.689
10	0.425	-	0.024	1.000	0.024	0.976	0.676	1.344	1.791
11	0.444	-	0.014	1.000	0.014	0.986	0.650	1.384	1.898
12	0.464	-	0.008	1.000	0.008	0.992	0.625	1.426	2.012
13	0.482	-	0.004	1.000	0.004	0.996	0.601	1.469	2.133
14	0.495	-	0.002	1.000	0.002	0.998	0.577	1.513	2.261
15	0.500	-	0.001	1.000	0.001	0.999	0.555	1.558	2.397
16	0.500	-	0.001	1.000	0.001	0.999	0.534	1.605	2.540
17	0.500	-	0.000	1.000	0.000	1.000	0.513	1.653	2.693
18	0.500	-	0.000	1.000	0.000	1.000	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	1.000	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	-	-	-	1.000	-	1.000	0.390	2.033	4.049
25	-	-	-	1.000	-	1.000	0.375	2.094	4.292
26	-	-	-	1.000	-	1.000	0.361	2.157	4.549
27	-	-	-	1.000	-	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	71		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/2/1981		
(15)	**DATE OF FILING**	3/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	85	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	9.41	7.67
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	9.41	7.67
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	72,797	59,287
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.068	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.075	-	0.932	1.000	0.932	0.068	0.962	1.030	1.060
2	0.084	-	0.862	1.000	0.862	0.138	0.925	1.061	1.124
3	0.094	-	0.790	1.000	0.790	0.210	0.889	1.093	1.191
4	0.105	-	0.716	1.000	0.716	0.284	0.855	1.126	1.262
5	0.116	-	0.641	1.000	0.641	0.359	0.822	1.159	1.338
6	0.129	-	0.566	1.000	0.566	0.434	0.790	1.194	1.419
7	0.142	-	0.493	1.000	0.493	0.507	0.760	1.230	1.504
8	0.156	-	0.423	1.000	0.423	0.577	0.731	1.267	1.594
9	0.171	-	0.357	1.000	0.357	0.643	0.703	1.305	1.689
10	0.186	-	0.296	1.000	0.296	0.704	0.676	1.344	1.791
11	0.203	-	0.241	1.000	0.241	0.759	0.650	1.384	1.898
12	0.220	-	0.192	1.000	0.192	0.808	0.625	1.426	2.012
13	0.238	-	0.150	1.000	0.150	0.850	0.601	1.469	2.133
14	0.257	-	0.114	1.000	0.114	0.886	0.577	1.513	2.261
15	0.276	-	0.085	1.000	0.085	0.915	0.555	1.558	2.397
16	0.297	-	0.062	1.000	0.062	0.938	0.534	1.605	2.540
17	0.317	-	0.043	1.000	0.043	0.957	0.513	1.653	2.693
18	0.339	-	0.030	1.000	0.030	0.970	0.494	1.702	2.854
19	0.361	-	0.020	1.000	0.020	0.980	0.475	1.754	3.026
20	0.384	-	0.012	1.000	0.012	0.988	0.456	1.806	3.207
21	0.405	-	0.008	1.000	0.008	0.992	0.439	1.860	3.400
22	0.425	-	0.005	1.000	0.005	0.995	0.422	1.916	3.604
23	0.444	-	0.003	1.000	0.003	0.997	0.406	1.974	3.820
24	0.464	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.482	-	0.001	1.000	0.001	0.999	0.375	2.094	4.292
26	0.495	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	1.000	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
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93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	72		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/21/1978		
(15)	**DATE OF FILING**	3/26/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	87	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	73		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	2/1/1980		
(15)	**DATE OF FILING**	3/24/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	90	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.56	5.64
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.56	5.64
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	50,719	43,613
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.116	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.129	-	0.884	1.000	0.884	0.116	0.962	1.030	1.060
2	0.142	-	0.770	1.000	0.770	0.230	0.925	1.061	1.124
3	0.156	-	0.661	1.000	0.661	0.339	0.889	1.093	1.191
4	0.171	-	0.558	1.000	0.558	0.442	0.855	1.126	1.262
5	0.186	-	0.462	1.000	0.462	0.538	0.822	1.159	1.338
6	0.203	-	0.376	1.000	0.376	0.624	0.790	1.194	1.419
7	0.220	-	0.300	1.000	0.300	0.700	0.760	1.230	1.504
8	0.238	-	0.234	1.000	0.234	0.766	0.731	1.267	1.594
9	0.257	-	0.179	1.000	0.179	0.821	0.703	1.305	1.689
10	0.276	-	0.133	1.000	0.133	0.867	0.676	1.344	1.791
11	0.297	-	0.096	1.000	0.096	0.904	0.650	1.384	1.898
12	0.317	-	0.068	1.000	0.068	0.932	0.625	1.426	2.012
13	0.339	-	0.046	1.000	0.046	0.954	0.601	1.469	2.133
14	0.361	-	0.031	1.000	0.031	0.969	0.577	1.513	2.261
15	0.384	-	0.019	1.000	0.019	0.981	0.555	1.558	2.397
16	0.405	-	0.012	1.000	0.012	0.988	0.534	1.605	2.540
17	0.425	-	0.007	1.000	0.007	0.993	0.513	1.653	2.693
18	0.444	-	0.004	1.000	0.004	0.996	0.494	1.702	2.854
19	0.464	-	0.002	1.000	0.002	0.998	0.475	1.754	3.026
20	0.482	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.495	-	0.001	1.000	0.001	0.999	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	1.000	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	74		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/12/1977		
(15)	**DATE OF FILING**	4/8/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	91	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.11	5.30
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.11	5.30
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	47,225	40,995
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.129	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.142	-	0.871	1.000	0.871	0.129	0.962	1.030	1.060
2	0.156	-	0.748	1.000	0.748	0.252	0.925	1.061	1.124
3	0.171	-	0.631	1.000	0.631	0.369	0.889	1.093	1.191
4	0.186	-	0.523	1.000	0.523	0.477	0.855	1.126	1.262
5	0.203	-	0.426	1.000	0.426	0.574	0.822	1.159	1.338
6	0.220	-	0.340	1.000	0.340	0.660	0.790	1.194	1.419
7	0.238	-	0.265	1.000	0.265	0.735	0.760	1.230	1.504
8	0.257	-	0.202	1.000	0.202	0.798	0.731	1.267	1.594
9	0.276	-	0.150	1.000	0.150	0.850	0.703	1.305	1.689
10	0.297	-	0.109	1.000	0.109	0.891	0.676	1.344	1.791
11	0.317	-	0.076	1.000	0.076	0.924	0.650	1.384	1.898
12	0.339	-	0.052	1.000	0.052	0.948	0.625	1.426	2.012
13	0.361	-	0.035	1.000	0.035	0.965	0.601	1.469	2.133
14	0.384	-	0.022	1.000	0.022	0.978	0.577	1.513	2.261
15	0.405	-	0.014	1.000	0.014	0.986	0.555	1.558	2.397
16	0.425	-	0.008	1.000	0.008	0.992	0.534	1.605	2.540
17	0.444	-	0.005	1.000	0.005	0.995	0.513	1.653	2.693
18	0.464	-	0.003	1.000	0.003	0.997	0.494	1.702	2.854
19	0.482	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.495	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	1.000	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	75		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	7/1/1976		
(15)	**DATE OF FILING**	4/3/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	93	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.31	4.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.31	4.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	41,047	36,264
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.156	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.171	-	0.844	1.000	0.844	0.156	0.962	1.030	1.060
2	0.186	-	0.700	1.000	0.700	0.300	0.925	1.061	1.124
3	0.203	-	0.570	1.000	0.570	0.430	0.889	1.093	1.191
4	0.220	-	0.454	1.000	0.454	0.546	0.855	1.126	1.262
5	0.238	-	0.354	1.000	0.354	0.646	0.822	1.159	1.338
6	0.257	-	0.270	1.000	0.270	0.730	0.790	1.194	1.419
7	0.276	-	0.201	1.000	0.201	0.799	0.760	1.230	1.504
8	0.297	-	0.145	1.000	0.145	0.855	0.731	1.267	1.594
9	0.317	-	0.102	1.000	0.102	0.898	0.703	1.305	1.689
10	0.339	-	0.070	1.000	0.070	0.930	0.676	1.344	1.791
11	0.361	-	0.046	1.000	0.046	0.954	0.650	1.384	1.898
12	0.384	-	0.030	1.000	0.030	0.970	0.625	1.426	2.012
13	0.405	-	0.018	1.000	0.018	0.982	0.601	1.469	2.133
14	0.425	-	0.011	1.000	0.011	0.989	0.577	1.513	2.261
15	0.444	-	0.006	1.000	0.006	0.994	0.555	1.558	2.397
16	0.464	-	0.003	1.000	0.003	0.997	0.534	1.605	2.540
17	0.482	-	0.002	1.000	0.002	0.998	0.513	1.653	2.693
18	0.495	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	76		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	1/1/1974		
(15)	**DATE OF FILING**	4/30/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	51	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	63.23	29.04
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	63.23	29.04
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	488,927	224,543
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.002	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.002	-	0.998	1.000	0.998	0.002	0.962	1.030	1.060
2	0.002	-	0.997	1.000	0.997	0.003	0.925	1.061	1.124
3	0.002	-	0.995	1.000	0.995	0.005	0.889	1.093	1.191
4	0.002	-	0.993	1.000	0.993	0.007	0.855	1.126	1.262
5	0.003	-	0.990	1.000	0.990	0.010	0.822	1.159	1.338
6	0.003	-	0.988	1.000	0.988	0.012	0.790	1.194	1.419
7	0.003	-	0.985	1.000	0.985	0.015	0.760	1.230	1.504
8	0.004	-	0.982	1.000	0.982	0.018	0.731	1.267	1.594
9	0.004	-	0.978	1.000	0.978	0.022	0.703	1.305	1.689
10	0.005	-	0.974	1.000	0.974	0.026	0.676	1.344	1.791
11	0.006	-	0.969	1.000	0.969	0.031	0.650	1.384	1.898
12	0.007	-	0.963	1.000	0.963	0.037	0.625	1.426	2.012
13	0.008	-	0.957	1.000	0.957	0.043	0.601	1.469	2.133
14	0.009	-	0.949	1.000	0.949	0.051	0.577	1.513	2.261
15	0.010	-	0.941	1.000	0.941	0.059	0.555	1.558	2.397
16	0.011	-	0.932	1.000	0.932	0.068	0.534	1.605	2.540
17	0.012	-	0.922	1.000	0.922	0.078	0.513	1.653	2.693
18	0.013	-	0.911	1.000	0.911	0.089	0.494	1.702	2.854
19	0.014	-	0.899	1.000	0.899	0.101	0.475	1.754	3.026
20	0.015	-	0.887	1.000	0.887	0.113	0.456	1.806	3.207
21	0.017	-	0.874	1.000	0.874	0.126	0.439	1.860	3.400
22	0.018	-	0.859	1.000	0.859	0.141	0.422	1.916	3.604
23	0.020	-	0.844	1.000	0.844	0.156	0.406	1.974	3.820
24	0.023	-	0.826	1.000	0.826	0.174	0.390	2.033	4.049
25	0.025	-	0.808	1.000	0.808	0.192	0.375	2.094	4.292
26	0.028	-	0.787	1.000	0.787	0.213	0.361	2.157	4.549
27	0.032	-	0.765	1.000	0.765	0.235	0.347	2.221	4.822
28	0.035	-	0.741	1.000	0.741	0.259	0.333	2.288	5.112
29	0.039	-	0.714	1.000	0.714	0.286	0.321	2.357	5.418
30	0.044	-	0.686	1.000	0.686	0.314	0.308	2.427	5.743
31	0.049	-	0.656	1.000	0.656	0.344	0.296	2.500	6.088
32	0.055	-	0.624	1.000	0.624	0.376	0.285	2.575	6.453
33	0.061	-	0.590	1.000	0.590	0.410	0.274	2.652	6.841
34	0.068	-	0.554	1.000	0.554	0.446	0.264	2.732	7.251
35	0.075	-	0.516	1.000	0.516	0.484	0.253	2.814	7.686
36	0.084	-	0.477	1.000	0.477	0.523	0.244	2.898	8.147
37	0.094	-	0.437	1.000	0.437	0.563	0.234	2.985	8.636
38	0.105	-	0.396	1.000	0.396	0.604	0.225	3.075	9.154
39	0.116	-	0.355	1.000	0.355	0.645	0.217	3.167	9.704
40	0.129	-	0.314	1.000	0.314	0.686	0.208	3.262	10.286
41	0.142	-	0.273	1.000	0.273	0.727	0.200	3.360	10.903
42	0.156	-	0.234	1.000	0.234	0.766	0.193	3.461	11.557
43	0.171	-	0.198	1.000	0.198	0.802	0.185	3.565	12.250
44	0.186	-	0.164	1.000	0.164	0.836	0.178	3.671	12.985
45	0.203	-	0.134	1.000	0.134	0.866	0.171	3.782	13.765
46	0.220	-	0.106	1.000	0.106	0.894	0.165	3.895	14.590
47	0.238	-	0.083	1.000	0.083	0.917	0.158	4.012	15.466
48	0.257	-	0.063	1.000	0.063	0.937	0.152	4.132	16.394
49	0.276	-	0.047	1.000	0.047	0.953	0.146	4.256	17.378
50	0.297	-	0.034	1.000	0.034	0.966	0.141	4.384	18.420
51	0.317	-	0.024	1.000	0.024	0.976	0.135	4.515	19.525
52	0.339	-	0.016	1.000	0.016	0.984	0.130	4.651	20.697
53	0.361	-	0.011	1.000	0.011	0.989	0.125	4.790	21.939
54	0.384	-	0.007	1.000	0.007	0.993	0.120	4.934	23.255
55	0.405	-	0.004	1.000	0.004	0.996	0.116	5.082	24.650
56	0.425	-	0.003	1.000	0.003	0.997	0.111	5.235	26.129
57	0.444	-	0.001	1.000	0.001	0.999	0.107	5.392	27.697
58	0.464	-	0.001	1.000	0.001	0.999	0.103	5.553	29.359
59	0.482	-	0.000	1.000	0.000	1.000	0.099	5.720	31.120
60	0.495	-	0.000	1.000	0.000	1.000	0.095	5.892	32.988
61	0.500	-	0.000	1.000	0.000	1.000	0.091	6.068	34.967
62	0.500	-	0.000	1.000	0.000	1.000	0.088	6.250	37.065
63	0.500	-	0.000	1.000	0.000	1.000	0.085	6.438	39.289
64	0.500	-	0.000	1.000	0.000	1.000	0.081	6.631	41.646
65	0.500	-	0.000	1.000	0.000	1.000	0.078	6.830	44.145
66	0.500	-	0.000	1.000	0.000	1.000	0.075	7.035	46.794
67	0.500	-	0.000	1.000	0.000	1.000	0.072	7.246	49.601
68	0.500	-	0.000	1.000	0.000	1.000	0.069	7.463	52.577
69	1.000	-	0.000	1.000	0.000	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	77		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/1/1981		
(15)	**DATE OF FILING**	9/2/1981		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	77	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	16.19	11.84
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	16.19	11.84
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	125,216	91,546
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.028	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.032	-	0.972	1.000	0.972	0.028	0.962	1.030	1.060
2	0.035	-	0.941	1.000	0.941	0.059	0.925	1.061	1.124
3	0.039	-	0.908	1.000	0.908	0.092	0.889	1.093	1.191
4	0.044	-	0.872	1.000	0.872	0.128	0.855	1.126	1.262
5	0.049	-	0.833	1.000	0.833	0.167	0.822	1.159	1.338
6	0.055	-	0.793	1.000	0.793	0.207	0.790	1.194	1.419
7	0.061	-	0.749	1.000	0.749	0.251	0.760	1.230	1.504
8	0.068	-	0.703	1.000	0.703	0.297	0.731	1.267	1.594
9	0.075	-	0.656	1.000	0.656	0.344	0.703	1.305	1.689
10	0.084	-	0.606	1.000	0.606	0.394	0.676	1.344	1.791
11	0.094	-	0.555	1.000	0.555	0.445	0.650	1.384	1.898
12	0.105	-	0.503	1.000	0.503	0.497	0.625	1.426	2.012
13	0.116	-	0.451	1.000	0.451	0.549	0.601	1.469	2.133
14	0.129	-	0.398	1.000	0.398	0.602	0.577	1.513	2.261
15	0.142	-	0.347	1.000	0.347	0.653	0.555	1.558	2.397
16	0.156	-	0.298	1.000	0.298	0.702	0.534	1.605	2.540
17	0.171	-	0.251	1.000	0.251	0.749	0.513	1.653	2.693
18	0.186	-	0.208	1.000	0.208	0.792	0.494	1.702	2.854
19	0.203	-	0.170	1.000	0.170	0.830	0.475	1.754	3.026
20	0.220	-	0.135	1.000	0.135	0.865	0.456	1.806	3.207
21	0.238	-	0.106	1.000	0.106	0.894	0.439	1.860	3.400
22	0.257	-	0.080	1.000	0.080	0.920	0.422	1.916	3.604
23	0.276	-	0.060	1.000	0.060	0.940	0.406	1.974	3.820
24	0.297	-	0.043	1.000	0.043	0.957	0.390	2.033	4.049
25	0.317	-	0.030	1.000	0.030	0.970	0.375	2.094	4.292
26	0.339	-	0.021	1.000	0.021	0.979	0.361	2.157	4.549
27	0.361	-	0.014	1.000	0.014	0.986	0.347	2.221	4.822
28	0.384	-	0.009	1.000	0.009	0.991	0.333	2.288	5.112
29	0.405	-	0.005	1.000	0.005	0.995	0.321	2.357	5.418
30	0.425	-	0.003	1.000	0.003	0.997	0.308	2.427	5.743
31	0.444	-	0.002	1.000	0.002	0.998	0.296	2.500	6.088
32	0.464	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.482	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.495	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	1.000	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	78		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1980		
(15)	**DATE OF FILING**	2/10/1982		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	87	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.15	6.79
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.15	6.79
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	63,028	52,531
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.084	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.094	-	0.916	1.000	0.916	0.084	0.962	1.030	1.060
2	0.105	-	0.830	1.000	0.830	0.170	0.925	1.061	1.124
3	0.116	-	0.743	1.000	0.743	0.257	0.889	1.093	1.191
4	0.129	-	0.657	1.000	0.657	0.343	0.855	1.126	1.262
5	0.142	-	0.572	1.000	0.572	0.428	0.822	1.159	1.338
6	0.156	-	0.491	1.000	0.491	0.509	0.790	1.194	1.419
7	0.171	-	0.414	1.000	0.414	0.586	0.760	1.230	1.504
8	0.186	-	0.344	1.000	0.344	0.656	0.731	1.267	1.594
9	0.203	-	0.280	1.000	0.280	0.720	0.703	1.305	1.689
10	0.220	-	0.223	1.000	0.223	0.777	0.676	1.344	1.791
11	0.238	-	0.174	1.000	0.174	0.826	0.650	1.384	1.898
12	0.257	-	0.133	1.000	0.133	0.867	0.625	1.426	2.012
13	0.276	-	0.099	1.000	0.099	0.901	0.601	1.469	2.133
14	0.297	-	0.071	1.000	0.071	0.929	0.577	1.513	2.261
15	0.317	-	0.050	1.000	0.050	0.950	0.555	1.558	2.397
16	0.339	-	0.034	1.000	0.034	0.966	0.534	1.605	2.540
17	0.361	-	0.023	1.000	0.023	0.977	0.513	1.653	2.693
18	0.384	-	0.014	1.000	0.014	0.986	0.494	1.702	2.854
19	0.405	-	0.009	1.000	0.009	0.991	0.475	1.754	3.026
20	0.425	-	0.005	1.000	0.005	0.995	0.456	1.806	3.207
21	0.444	-	0.003	1.000	0.003	0.997	0.439	1.860	3.400
22	0.464	-	0.002	1.000	0.002	0.998	0.422	1.916	3.604
23	0.482	-	0.001	1.000	0.001	0.999	0.406	1.974	3.820
24	0.495	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	1.000	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
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(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
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(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
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(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	79		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	9/1/1983		
(15)	**DATE OF FILING**	9/2/1983		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	86	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	8.76	7.22
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	8.76	7.22
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	67,760	55,838
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.075	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.084	-	0.925	1.000	0.925	0.075	0.962	1.030	1.060
2	0.094	-	0.847	1.000	0.847	0.153	0.925	1.061	1.124
3	0.105	-	0.767	1.000	0.767	0.233	0.889	1.093	1.191
4	0.116	-	0.687	1.000	0.687	0.313	0.855	1.126	1.262
5	0.129	-	0.607	1.000	0.607	0.393	0.822	1.159	1.338
6	0.142	-	0.529	1.000	0.529	0.471	0.790	1.194	1.419
7	0.156	-	0.454	1.000	0.454	0.546	0.760	1.230	1.504
8	0.171	-	0.383	1.000	0.383	0.617	0.731	1.267	1.594
9	0.186	-	0.318	1.000	0.318	0.682	0.703	1.305	1.689
10	0.203	-	0.259	1.000	0.259	0.741	0.676	1.344	1.791
11	0.220	-	0.206	1.000	0.206	0.794	0.650	1.384	1.898
12	0.238	-	0.161	1.000	0.161	0.839	0.625	1.426	2.012
13	0.257	-	0.123	1.000	0.123	0.877	0.601	1.469	2.133
14	0.276	-	0.091	1.000	0.091	0.909	0.577	1.513	2.261
15	0.297	-	0.066	1.000	0.066	0.934	0.555	1.558	2.397
16	0.317	-	0.046	1.000	0.046	0.954	0.534	1.605	2.540
17	0.339	-	0.032	1.000	0.032	0.968	0.513	1.653	2.693
18	0.361	-	0.021	1.000	0.021	0.979	0.494	1.702	2.854
19	0.384	-	0.013	1.000	0.013	0.987	0.475	1.754	3.026
20	0.405	-	0.008	1.000	0.008	0.992	0.456	1.806	3.207
21	0.425	-	0.005	1.000	0.005	0.995	0.439	1.860	3.400
22	0.444	-	0.003	1.000	0.003	0.997	0.422	1.916	3.604
23	0.464	-	0.002	1.000	0.002	0.998	0.406	1.974	3.820
24	0.482	-	0.001	1.000	0.001	0.999	0.390	2.033	4.049
25	0.495	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	0.500	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	0.500	-	0.000	1.000	0.000	1.000	0.308	2.427	5.743
31	0.500	-	0.000	1.000	0.000	1.000	0.296	2.500	6.088
32	0.500	-	0.000	1.000	0.000	1.000	0.285	2.575	6.453
33	0.500	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	1.000	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
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(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
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(27) N/A
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(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	80		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1984		
(15)	**DATE OF FILING**	4/12/1984		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	78	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.18	11.26
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.18	11.26
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	117,392	87,098
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.032	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.035	-	0.968	1.000	0.968	0.032	0.962	1.030	1.060
2	0.039	-	0.934	1.000	0.934	0.066	0.925	1.061	1.124
3	0.044	-	0.897	1.000	0.897	0.103	0.889	1.093	1.191
4	0.049	-	0.858	1.000	0.858	0.142	0.855	1.126	1.262
5	0.055	-	0.816	1.000	0.816	0.184	0.822	1.159	1.338
6	0.061	-	0.771	1.000	0.771	0.229	0.790	1.194	1.419
7	0.068	-	0.724	1.000	0.724	0.276	0.760	1.230	1.504
8	0.075	-	0.675	1.000	0.675	0.325	0.731	1.267	1.594
9	0.084	-	0.624	1.000	0.624	0.376	0.703	1.305	1.689
10	0.094	-	0.572	1.000	0.572	0.428	0.676	1.344	1.791
11	0.105	-	0.518	1.000	0.518	0.482	0.650	1.384	1.898
12	0.116	-	0.464	1.000	0.464	0.536	0.625	1.426	2.012
13	0.129	-	0.410	1.000	0.410	0.590	0.601	1.469	2.133
14	0.142	-	0.357	1.000	0.357	0.643	0.577	1.513	2.261
15	0.156	-	0.306	1.000	0.306	0.694	0.555	1.558	2.397
16	0.171	-	0.259	1.000	0.259	0.741	0.534	1.605	2.540
17	0.186	-	0.214	1.000	0.214	0.786	0.513	1.653	2.693
18	0.203	-	0.175	1.000	0.175	0.825	0.494	1.702	2.854
19	0.220	-	0.139	1.000	0.139	0.861	0.475	1.754	3.026
20	0.238	-	0.109	1.000	0.109	0.891	0.456	1.806	3.207
21	0.257	-	0.083	1.000	0.083	0.917	0.439	1.860	3.400
22	0.276	-	0.062	1.000	0.062	0.938	0.422	1.916	3.604
23	0.297	-	0.045	1.000	0.045	0.955	0.406	1.974	3.820
24	0.317	-	0.031	1.000	0.031	0.969	0.390	2.033	4.049
25	0.339	-	0.021	1.000	0.021	0.979	0.375	2.094	4.292
26	0.361	-	0.014	1.000	0.014	0.986	0.361	2.157	4.549
27	0.384	-	0.009	1.000	0.009	0.991	0.347	2.221	4.822
28	0.405	-	0.006	1.000	0.006	0.994	0.333	2.288	5.112
29	0.425	-	0.003	1.000	0.003	0.997	0.321	2.357	5.418
30	0.444	-	0.002	1.000	0.002	0.998	0.308	2.427	5.743
31	0.464	-	0.001	1.000	0.001	0.999	0.296	2.500	6.088
32	0.482	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.495	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	1.000	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	81		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	3/1/1976		
(15)	**DATE OF FILING**	4/8/1985		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	93	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	5.31	4.69
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	5.31	4.69
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	41,047	36,264
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.156	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.171	-	0.844	1.000	0.844	0.156	0.962	1.030	1.060
2	0.186	-	0.700	1.000	0.700	0.300	0.925	1.061	1.124
3	0.203	-	0.570	1.000	0.570	0.430	0.889	1.093	1.191
4	0.220	-	0.454	1.000	0.454	0.546	0.855	1.126	1.262
5	0.238	-	0.354	1.000	0.354	0.646	0.822	1.159	1.338
6	0.257	-	0.270	1.000	0.270	0.730	0.790	1.194	1.419
7	0.276	-	0.201	1.000	0.201	0.799	0.760	1.230	1.504
8	0.297	-	0.145	1.000	0.145	0.855	0.731	1.267	1.594
9	0.317	-	0.102	1.000	0.102	0.898	0.703	1.305	1.689
10	0.339	-	0.070	1.000	0.070	0.930	0.676	1.344	1.791
11	0.361	-	0.046	1.000	0.046	0.954	0.650	1.384	1.898
12	0.384	-	0.030	1.000	0.030	0.970	0.625	1.426	2.012
13	0.405	-	0.018	1.000	0.018	0.982	0.601	1.469	2.133
14	0.425	-	0.011	1.000	0.011	0.989	0.577	1.513	2.261
15	0.444	-	0.006	1.000	0.006	0.994	0.555	1.558	2.397
16	0.464	-	0.003	1.000	0.003	0.997	0.534	1.605	2.540
17	0.482	-	0.002	1.000	0.002	0.998	0.513	1.653	2.693
18	0.495	-	0.001	1.000	0.001	0.999	0.494	1.702	2.854
19	0.500	-	0.000	1.000	0.000	1.000	0.475	1.754	3.026
20	0.500	-	0.000	1.000	0.000	1.000	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	1.000	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	-	-	-	1.000	-	1.000	0.333	2.288	5.112
29	-	-	-	1.000	-	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	82		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	11/1/1985		
(15)	**DATE OF FILING**	11/25/1985		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	76	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	17.26	12.43
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	17.26	12.43
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	133,439	96,102
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.025	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.028	-	0.975	1.000	0.975	0.025	0.962	1.030	1.060
2	0.032	-	0.947	1.000	0.947	0.053	0.925	1.061	1.124
3	0.035	-	0.917	1.000	0.917	0.083	0.889	1.093	1.191
4	0.039	-	0.885	1.000	0.885	0.115	0.855	1.126	1.262
5	0.044	-	0.850	1.000	0.850	0.150	0.822	1.159	1.338
6	0.049	-	0.812	1.000	0.812	0.188	0.790	1.194	1.419
7	0.055	-	0.772	1.000	0.772	0.228	0.760	1.230	1.504
8	0.061	-	0.730	1.000	0.730	0.270	0.731	1.267	1.594
9	0.068	-	0.686	1.000	0.686	0.314	0.703	1.305	1.689
10	0.075	-	0.639	1.000	0.639	0.361	0.676	1.344	1.791
11	0.084	-	0.591	1.000	0.591	0.409	0.650	1.384	1.898
12	0.094	-	0.541	1.000	0.541	0.459	0.625	1.426	2.012
13	0.105	-	0.491	1.000	0.491	0.509	0.601	1.469	2.133
14	0.116	-	0.439	1.000	0.439	0.561	0.577	1.513	2.261
15	0.129	-	0.388	1.000	0.388	0.612	0.555	1.558	2.397
16	0.142	-	0.338	1.000	0.338	0.662	0.534	1.605	2.540
17	0.156	-	0.290	1.000	0.290	0.710	0.513	1.653	2.693
18	0.171	-	0.245	1.000	0.245	0.755	0.494	1.702	2.854
19	0.186	-	0.203	1.000	0.203	0.797	0.475	1.754	3.026
20	0.203	-	0.165	1.000	0.165	0.835	0.456	1.806	3.207
21	0.220	-	0.132	1.000	0.132	0.868	0.439	1.860	3.400
22	0.238	-	0.103	1.000	0.103	0.897	0.422	1.916	3.604
23	0.257	-	0.078	1.000	0.078	0.922	0.406	1.974	3.820
24	0.276	-	0.058	1.000	0.058	0.942	0.390	2.033	4.049
25	0.297	-	0.042	1.000	0.042	0.958	0.375	2.094	4.292
26	0.317	-	0.030	1.000	0.030	0.970	0.361	2.157	4.549
27	0.339	-	0.020	1.000	0.020	0.980	0.347	2.221	4.822
28	0.361	-	0.013	1.000	0.013	0.987	0.333	2.288	5.112
29	0.384	-	0.009	1.000	0.009	0.991	0.321	2.357	5.418
30	0.405	-	0.005	1.000	0.005	0.995	0.308	2.427	5.743
31	0.425	-	0.003	1.000	0.003	0.997	0.296	2.500	6.088
32	0.444	-	0.002	1.000	0.002	0.998	0.285	2.575	6.453
33	0.464	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.482	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.495	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	1.000	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
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74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
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120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
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(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	83		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	12/1/1987		
(15)	**DATE OF FILING**	2/16/1988		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	76	F	
(17)	**CLAIMANT 2 (y)**			

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	17.26	12.43
(19)			
(20)	APV FOR BOTH CLAIMANTS ALIVE	17.26	12.43
(21)			
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	133,439	96,102
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.025	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.028	-	0.975	1.000	0.975	0.025	0.962	1.030	1.060
2	0.032	-	0.947	1.000	0.947	0.053	0.925	1.061	1.124
3	0.035	-	0.917	1.000	0.917	0.083	0.889	1.093	1.191
4	0.039	-	0.885	1.000	0.885	0.115	0.855	1.126	1.262
5	0.044	-	0.850	1.000	0.850	0.150	0.822	1.159	1.338
6	0.049	-	0.812	1.000	0.812	0.188	0.790	1.194	1.419
7	0.055	-	0.772	1.000	0.772	0.228	0.760	1.230	1.504
8	0.061	-	0.730	1.000	0.730	0.270	0.731	1.267	1.594
9	0.068	-	0.686	1.000	0.686	0.314	0.703	1.305	1.689
10	0.075	-	0.639	1.000	0.639	0.361	0.676	1.344	1.791
11	0.084	-	0.591	1.000	0.591	0.409	0.650	1.384	1.898
12	0.094	-	0.541	1.000	0.541	0.459	0.625	1.426	2.012
13	0.105	-	0.491	1.000	0.491	0.509	0.601	1.469	2.133
14	0.116	-	0.439	1.000	0.439	0.561	0.577	1.513	2.261
15	0.129	-	0.388	1.000	0.388	0.612	0.555	1.558	2.397
16	0.142	-	0.338	1.000	0.338	0.662	0.534	1.605	2.540
17	0.156	-	0.290	1.000	0.290	0.710	0.513	1.653	2.693
18	0.171	-	0.245	1.000	0.245	0.755	0.494	1.702	2.854
19	0.186	-	0.203	1.000	0.203	0.797	0.475	1.754	3.026
20	0.203	-	0.165	1.000	0.165	0.835	0.456	1.806	3.207
21	0.220	-	0.132	1.000	0.132	0.868	0.439	1.860	3.400
22	0.238	-	0.103	1.000	0.103	0.897	0.422	1.916	3.604
23	0.257	-	0.078	1.000	0.078	0.922	0.406	1.974	3.820
24	0.276	-	0.058	1.000	0.058	0.942	0.390	2.033	4.049
25	0.297	-	0.042	1.000	0.042	0.958	0.375	2.094	4.292
26	0.317	-	0.030	1.000	0.030	0.970	0.361	2.157	4.549
27	0.339	-	0.020	1.000	0.020	0.980	0.347	2.221	4.822
28	0.361	-	0.013	1.000	0.013	0.987	0.333	2.288	5.112
29	0.384	-	0.009	1.000	0.009	0.991	0.321	2.357	5.418
30	0.405	-	0.005	1.000	0.005	0.995	0.308	2.427	5.743
31	0.425	-	0.003	1.000	0.003	0.997	0.296	2.500	6.088
32	0.444	-	0.002	1.000	0.002	0.998	0.285	2.575	6.453
33	0.464	-	0.001	1.000	0.001	0.999	0.274	2.652	6.841
34	0.482	-	0.001	1.000	0.001	0.999	0.264	2.732	7.251
35	0.495	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	1.000	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	84	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	4/1/1989	
(15)	**DATE OF FILING**	5/11/1989	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	70	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	24.72	16.17
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	24.72	16.17
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,133.70	55.52
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	191,111	125,017
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.014	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.015	-	0.986	1.000	0.986	0.014	0.962	1.030	1.060
2	0.017	-	0.972	1.000	0.972	0.028	0.925	1.061	1.124
3	0.018	-	0.955	1.000	0.955	0.045	0.889	1.093	1.191
4	0.020	-	0.938	1.000	0.938	0.062	0.855	1.126	1.262
5	0.023	-	0.919	1.000	0.919	0.081	0.822	1.159	1.338
6	0.025	-	0.898	1.000	0.898	0.102	0.790	1.194	1.419
7	0.028	-	0.875	1.000	0.875	0.125	0.760	1.230	1.504
8	0.032	-	0.850	1.000	0.850	0.150	0.731	1.267	1.594
9	0.035	-	0.823	1.000	0.823	0.177	0.703	1.305	1.689
10	0.039	-	0.794	1.000	0.794	0.206	0.676	1.344	1.791
11	0.044	-	0.763	1.000	0.763	0.237	0.650	1.384	1.898
12	0.049	-	0.729	1.000	0.729	0.271	0.625	1.426	2.012
13	0.055	-	0.694	1.000	0.694	0.306	0.601	1.469	2.133
14	0.061	-	0.656	1.000	0.656	0.344	0.577	1.513	2.261
15	0.068	-	0.616	1.000	0.616	0.384	0.555	1.558	2.397
16	0.075	-	0.574	1.000	0.574	0.426	0.534	1.605	2.540
17	0.084	-	0.531	1.000	0.531	0.469	0.513	1.653	2.693
18	0.094	-	0.486	1.000	0.486	0.514	0.494	1.702	2.854
19	0.105	-	0.440	1.000	0.440	0.560	0.475	1.754	3.026
20	0.116	-	0.394	1.000	0.394	0.606	0.456	1.806	3.207
21	0.129	-	0.349	1.000	0.349	0.651	0.439	1.860	3.400
22	0.142	-	0.304	1.000	0.304	0.696	0.422	1.916	3.604
23	0.156	-	0.261	1.000	0.261	0.739	0.406	1.974	3.820
24	0.171	-	0.220	1.000	0.220	0.780	0.390	2.033	4.049
25	0.186	-	0.182	1.000	0.182	0.818	0.375	2.094	4.292
26	0.203	-	0.148	1.000	0.148	0.852	0.361	2.157	4.549
27	0.220	-	0.118	1.000	0.118	0.882	0.347	2.221	4.822
28	0.238	-	0.092	1.000	0.092	0.908	0.333	2.288	5.112
29	0.257	-	0.070	1.000	0.070	0.930	0.321	2.357	5.418
30	0.276	-	0.052	1.000	0.052	0.948	0.308	2.427	5.743
31	0.297	-	0.038	1.000	0.038	0.962	0.296	2.500	6.088
32	0.317	-	0.027	1.000	0.027	0.973	0.285	2.575	6.453
33	0.339	-	0.018	1.000	0.018	0.982	0.274	2.652	6.841
34	0.361	-	0.012	1.000	0.012	0.988	0.264	2.732	7.251
35	0.384	-	0.008	1.000	0.008	0.992	0.253	2.814	7.686
36	0.405	-	0.005	1.000	0.005	0.995	0.244	2.898	8.147
37	0.425	-	0.003	1.000	0.003	0.997	0.234	2.985	8.636
38	0.444	-	0.002	1.000	0.002	0.998	0.225	3.075	9.154
39	0.464	-	0.001	1.000	0.001	0.999	0.217	3.167	9.704
40	0.482	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.495	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.500	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.500	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	1.000	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	85	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	3/27/1991	
(15)	**DATE OF FILING**	11/15/1991	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	78	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	15.18	11.26
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	15.18	11.26
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,143.23	60.43
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	117,392	87,098
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.032	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.035	-	0.968	1.000	0.968	0.032	0.962	1.030	1.060
2	0.039	-	0.934	1.000	0.934	0.066	0.925	1.061	1.124
3	0.044	-	0.897	1.000	0.897	0.103	0.889	1.093	1.191
4	0.049	-	0.858	1.000	0.858	0.142	0.855	1.126	1.262
5	0.055	-	0.816	1.000	0.816	0.184	0.822	1.159	1.338
6	0.061	-	0.771	1.000	0.771	0.229	0.790	1.194	1.419
7	0.068	-	0.724	1.000	0.724	0.276	0.760	1.230	1.504
8	0.075	-	0.675	1.000	0.675	0.325	0.731	1.267	1.594
9	0.084	-	0.624	1.000	0.624	0.376	0.703	1.305	1.689
10	0.094	-	0.572	1.000	0.572	0.428	0.676	1.344	1.791
11	0.105	-	0.518	1.000	0.518	0.482	0.650	1.384	1.898
12	0.116	-	0.464	1.000	0.464	0.536	0.625	1.426	2.012
13	0.129	-	0.410	1.000	0.410	0.590	0.601	1.469	2.133
14	0.142	-	0.357	1.000	0.357	0.643	0.577	1.513	2.261
15	0.156	-	0.306	1.000	0.306	0.694	0.555	1.558	2.397
16	0.171	-	0.259	1.000	0.259	0.741	0.534	1.605	2.540
17	0.186	-	0.214	1.000	0.214	0.786	0.513	1.653	2.693
18	0.203	-	0.175	1.000	0.175	0.825	0.494	1.702	2.854
19	0.220	-	0.139	1.000	0.139	0.861	0.475	1.754	3.026
20	0.238	-	0.109	1.000	0.109	0.891	0.456	1.806	3.207
21	0.257	-	0.083	1.000	0.083	0.917	0.439	1.860	3.400
22	0.276	-	0.062	1.000	0.062	0.938	0.422	1.916	3.604
23	0.297	-	0.045	1.000	0.045	0.955	0.406	1.974	3.820
24	0.317	-	0.031	1.000	0.031	0.969	0.390	2.033	4.049
25	0.339	-	0.021	1.000	0.021	0.979	0.375	2.094	4.292
26	0.361	-	0.014	1.000	0.014	0.986	0.361	2.157	4.549
27	0.384	-	0.009	1.000	0.009	0.991	0.347	2.221	4.822
28	0.405	-	0.006	1.000	0.006	0.994	0.333	2.288	5.112
29	0.425	-	0.003	1.000	0.003	0.997	0.321	2.357	5.418
30	0.444	-	0.002	1.000	0.002	0.998	0.308	2.427	5.743
31	0.464	-	0.001	1.000	0.001	0.999	0.296	2.500	6.088
32	0.482	-	0.001	1.000	0.001	0.999	0.285	2.575	6.453
33	0.495	-	0.000	1.000	0.000	1.000	0.274	2.652	6.841
34	0.500	-	0.000	1.000	0.000	1.000	0.264	2.732	7.251
35	0.500	-	0.000	1.000	0.000	1.000	0.253	2.814	7.686
36	0.500	-	0.000	1.000	0.000	1.000	0.244	2.898	8.147
37	0.500	-	0.000	1.000	0.000	1.000	0.234	2.985	8.636
38	0.500	-	0.000	1.000	0.000	1.000	0.225	3.075	9.154
39	0.500	-	0.000	1.000	0.000	1.000	0.217	3.167	9.704
40	0.500	-	0.000	1.000	0.000	1.000	0.208	3.262	10.286
41	0.500	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	1.000	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
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98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	86		
(12)	**CLAIM NUMBER**			
(13)	**TYPE OF CLAIM**	Survivor		
(14)	**DATE OF INJURY**	4/23/1993		
(15)	**DATE OF FILING**	6/28/1993		
		Age	**Sex**	
(16)	**CLAIMANT 1 (x)**	91	F	
(17)	**CLAIMANT 2 (y)**	0		

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.11	5.30
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.11	5.30
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,152.30	66.39
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	47,225	40,995
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.129	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.142	-	0.871	1.000	0.871	0.129	0.962	1.030	1.060
2	0.156	-	0.748	1.000	0.748	0.252	0.925	1.061	1.124
3	0.171	-	0.631	1.000	0.631	0.369	0.889	1.093	1.191
4	0.186	-	0.523	1.000	0.523	0.477	0.855	1.126	1.262
5	0.203	-	0.426	1.000	0.426	0.574	0.822	1.159	1.338
6	0.220	-	0.340	1.000	0.340	0.660	0.790	1.194	1.419
7	0.238	-	0.265	1.000	0.265	0.735	0.760	1.230	1.504
8	0.257	-	0.202	1.000	0.202	0.798	0.731	1.267	1.594
9	0.276	-	0.150	1.000	0.150	0.850	0.703	1.305	1.689
10	0.297	-	0.109	1.000	0.109	0.891	0.676	1.344	1.791
11	0.317	-	0.076	1.000	0.076	0.924	0.650	1.384	1.898
12	0.339	-	0.052	1.000	0.052	0.948	0.625	1.426	2.012
13	0.361	-	0.035	1.000	0.035	0.965	0.601	1.469	2.133
14	0.384	-	0.022	1.000	0.022	0.978	0.577	1.513	2.261
15	0.405	-	0.014	1.000	0.014	0.986	0.555	1.558	2.397
16	0.425	-	0.008	1.000	0.008	0.992	0.534	1.605	2.540
17	0.444	-	0.005	1.000	0.005	0.995	0.513	1.653	2.693
18	0.464	-	0.003	1.000	0.003	0.997	0.494	1.702	2.854
19	0.482	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.495	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	1.000	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	87	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	6/1/1993	
(15)	**DATE OF FILING**	6/28/1993	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	69	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	26.13	16.81
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	26.13	16.81
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,132.28	54.88
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	202,075	129,974
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.013	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.014	-	0.987	1.000	0.987	0.013	0.962	1.030	1.060
2	0.015	-	0.974	1.000	0.974	0.026	0.925	1.061	1.124
3	0.017	-	0.959	1.000	0.959	0.041	0.889	1.093	1.191
4	0.018	-	0.943	1.000	0.943	0.057	0.855	1.126	1.262
5	0.020	-	0.926	1.000	0.926	0.074	0.822	1.159	1.338
6	0.023	-	0.907	1.000	0.907	0.093	0.790	1.194	1.419
7	0.025	-	0.887	1.000	0.887	0.113	0.760	1.230	1.504
8	0.028	-	0.864	1.000	0.864	0.136	0.731	1.267	1.594
9	0.032	-	0.840	1.000	0.840	0.160	0.703	1.305	1.689
10	0.035	-	0.813	1.000	0.813	0.187	0.676	1.344	1.791
11	0.039	-	0.784	1.000	0.784	0.216	0.650	1.384	1.898
12	0.044	-	0.753	1.000	0.753	0.247	0.625	1.426	2.012
13	0.049	-	0.720	1.000	0.720	0.280	0.601	1.469	2.133
14	0.055	-	0.685	1.000	0.685	0.315	0.577	1.513	2.261
15	0.061	-	0.647	1.000	0.647	0.353	0.555	1.558	2.397
16	0.068	-	0.608	1.000	0.608	0.392	0.534	1.605	2.540
17	0.075	-	0.567	1.000	0.567	0.433	0.513	1.653	2.693
18	0.084	-	0.524	1.000	0.524	0.476	0.494	1.702	2.854
19	0.094	-	0.480	1.000	0.480	0.520	0.475	1.754	3.026
20	0.105	-	0.435	1.000	0.435	0.565	0.456	1.806	3.207
21	0.116	-	0.389	1.000	0.389	0.611	0.439	1.860	3.400
22	0.129	-	0.344	1.000	0.344	0.656	0.422	1.916	3.604
23	0.142	-	0.300	1.000	0.300	0.700	0.406	1.974	3.820
24	0.156	-	0.257	1.000	0.257	0.743	0.390	2.033	4.049
25	0.171	-	0.217	1.000	0.217	0.783	0.375	2.094	4.292
26	0.186	-	0.180	1.000	0.180	0.820	0.361	2.157	4.549
27	0.203	-	0.147	1.000	0.147	0.853	0.347	2.221	4.822
28	0.220	-	0.117	1.000	0.117	0.883	0.333	2.288	5.112
29	0.238	-	0.091	1.000	0.091	0.909	0.321	2.357	5.418
30	0.257	-	0.070	1.000	0.070	0.930	0.308	2.427	5.743
31	0.276	-	0.052	1.000	0.052	0.948	0.296	2.500	6.088
32	0.297	-	0.037	1.000	0.037	0.963	0.285	2.575	6.453
33	0.317	-	0.026	1.000	0.026	0.974	0.274	2.652	6.841
34	0.339	-	0.018	1.000	0.018	0.982	0.264	2.732	7.251
35	0.361	-	0.012	1.000	0.012	0.988	0.253	2.814	7.686
36	0.384	-	0.008	1.000	0.008	0.992	0.244	2.898	8.147
37	0.405	-	0.005	1.000	0.005	0.995	0.234	2.985	8.636
38	0.425	-	0.003	1.000	0.003	0.997	0.225	3.075	9.154
39	0.444	-	0.002	1.000	0.002	0.998	0.217	3.167	9.704
40	0.464	-	0.001	1.000	0.001	0.999	0.208	3.262	10.286
41	0.482	-	0.000	1.000	0.000	1.000	0.200	3.360	10.903
42	0.495	-	0.000	1.000	0.000	1.000	0.193	3.461	11.557
43	0.500	-	0.000	1.000	0.000	1.000	0.185	3.565	12.250
44	0.500	-	0.000	1.000	0.000	1.000	0.178	3.671	12.985
45	0.500	-	0.000	1.000	0.000	1.000	0.171	3.782	13.765
46	0.500	-	0.000	1.000	0.000	1.000	0.165	3.895	14.590
47	0.500	-	0.000	1.000	0.000	1.000	0.158	4.012	15.466
48	0.500	-	0.000	1.000	0.000	1.000	0.152	4.132	16.394
49	0.500	-	0.000	1.000	0.000	1.000	0.146	4.256	17.378
50	0.500	-	0.000	1.000	0.000	1.000	0.141	4.384	18.420
51	1.000	-	0.000	1.000	0.000	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
101	-	-	-	1.000	-	1.000	0.019	19.795	359.660
102	-	-	-	1.000	-	1.000	0.018	20.389	381.240
103	-	-	-	1.000	-	1.000	0.018	21.001	404.114
104	-	-	-	1.000	-	1.000	0.017	21.631	428.361
105	-	-	-	1.000	-	1.000	0.016	22.280	454.063
106	-	-	-	1.000	-	1.000	0.016	22.948	481.306
107	-	-	-	1.000	-	1.000	0.015	23.636	510.185
108	-	-	-	1.000	-	1.000	0.014	24.346	540.796
109	-	-	-	1.000	-	1.000	0.014	25.076	573.244
110	-	-	-	1.000	-	1.000	0.013	25.828	607.638
111	-	-	-	1.000	-	1.000	0.013	26.603	644.097
112	-	-	-	1.000	-	1.000	0.012	27.401	682.742
113	-	-	-	1.000	-	1.000	0.012	28.223	723.707
114	-	-	-	1.000	-	1.000	0.011	29.070	767.129
115	-	-	-	1.000	-	1.000	0.011	29.942	813.157
116	-	-	-	1.000	-	1.000	0.011	30.840	861.947
117	-	-	-	1.000	-	1.000	0.010	31.765	913.663
118	-	-	-	1.000	-	1.000	0.010	32.718	968.483
119	-	-	-	1.000	-	1.000	0.009	33.700	1,026.592
120	-	-	-	1.000	-	1.000	0.009	34.711	1,088.188
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

BENEFIT CALCULATION DETAILS FOR CLAIMS CURRENTLY ON AWARD

CLAIM INFO

(11)	**INDEX**	88	
(12)	**CLAIM NUMBER**		
(13)	**TYPE OF CLAIM**	Survivor	
(14)	**DATE OF INJURY**	4/1/1995	
(15)	**DATE OF FILING**	5/16/1995	
		Age	**Sex**
(16)	**CLAIMANT 1 (x)**	91	F
(17)	**CLAIMANT 2 (y)**	0	

		NOMINAL	DISCOUNTED
	PTD/DEPENDENT BENEFIT PAYMENTS		
(18)	APV FOR CLAIMANT 1	6.11	5.30
(19)	APV FOR CLAIMANT 2	1,158.41	71.69
(20)	APV FOR BOTH CLAIMANTS ALIVE	6.11	5.30
(21)	APV FOR ONLY 1 CLAIMANT ALIVE	1,152.30	66.39
(22)	ANNUAL BENEFIT WHEN ALL CLAIMANTS ARE ALIVE	7,732	7,732
(23)	ANNUAL BENEFIT WHEN ONLY ONE IS ALIVE	-	-
(24)	APV OF INDEMNITY BENEFITS PAID TO CLAIMANT	47,225	40,995
	MEDICAL PAYMENTS		
(25)	CURRENT MINER INDEMNITY BENEFIT - MONTHLY	-	-
(26)	CURRENT MINER INDEMNITY BENEFIT - YEARLY	-	-
(27)	ESTIMATED ANNUAL MEDICAL PAYMENT	-	-
(28)	APV FOR $1 OF MEDICAL BENEFIT	-	-
(29)	APV OF MEDICAL BENEFIT	-	-

MORTALITY FOR SELECTED CASE

t	qx	qy	tpx	tpy	tpxy	tpx + tpy - 2*tpxy	v^t	Benefit Escalation	Medical Factor
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
0	0.129	-	1.000	1.000	1.000	-	1.000	1.000	1.000
1	0.142	-	0.871	1.000	0.871	0.129	0.962	1.030	1.060
2	0.156	-	0.748	1.000	0.748	0.252	0.925	1.061	1.124
3	0.171	-	0.631	1.000	0.631	0.369	0.889	1.093	1.191
4	0.186	-	0.523	1.000	0.523	0.477	0.855	1.126	1.262
5	0.203	-	0.426	1.000	0.426	0.574	0.822	1.159	1.338
6	0.220	-	0.340	1.000	0.340	0.660	0.790	1.194	1.419
7	0.238	-	0.265	1.000	0.265	0.735	0.760	1.230	1.504
8	0.257	-	0.202	1.000	0.202	0.798	0.731	1.267	1.594
9	0.276	-	0.150	1.000	0.150	0.850	0.703	1.305	1.689
10	0.297	-	0.109	1.000	0.109	0.891	0.676	1.344	1.791
11	0.317	-	0.076	1.000	0.076	0.924	0.650	1.384	1.898
12	0.339	-	0.052	1.000	0.052	0.948	0.625	1.426	2.012
13	0.361	-	0.035	1.000	0.035	0.965	0.601	1.469	2.133
14	0.384	-	0.022	1.000	0.022	0.978	0.577	1.513	2.261
15	0.405	-	0.014	1.000	0.014	0.986	0.555	1.558	2.397
16	0.425	-	0.008	1.000	0.008	0.992	0.534	1.605	2.540
17	0.444	-	0.005	1.000	0.005	0.995	0.513	1.653	2.693
18	0.464	-	0.003	1.000	0.003	0.997	0.494	1.702	2.854
19	0.482	-	0.001	1.000	0.001	0.999	0.475	1.754	3.026
20	0.495	-	0.001	1.000	0.001	0.999	0.456	1.806	3.207
21	0.500	-	0.000	1.000	0.000	1.000	0.439	1.860	3.400
22	0.500	-	0.000	1.000	0.000	1.000	0.422	1.916	3.604
23	0.500	-	0.000	1.000	0.000	1.000	0.406	1.974	3.820
24	0.500	-	0.000	1.000	0.000	1.000	0.390	2.033	4.049
25	0.500	-	0.000	1.000	0.000	1.000	0.375	2.094	4.292
26	0.500	-	0.000	1.000	0.000	1.000	0.361	2.157	4.549
27	0.500	-	0.000	1.000	0.000	1.000	0.347	2.221	4.822
28	0.500	-	0.000	1.000	0.000	1.000	0.333	2.288	5.112
29	1.000	-	0.000	1.000	0.000	1.000	0.321	2.357	5.418
30	-	-	-	1.000	-	1.000	0.308	2.427	5.743
31	-	-	-	1.000	-	1.000	0.296	2.500	6.088
32	-	-	-	1.000	-	1.000	0.285	2.575	6.453
33	-	-	-	1.000	-	1.000	0.274	2.652	6.841
34	-	-	-	1.000	-	1.000	0.264	2.732	7.251
35	-	-	-	1.000	-	1.000	0.253	2.814	7.686
36	-	-	-	1.000	-	1.000	0.244	2.898	8.147
37	-	-	-	1.000	-	1.000	0.234	2.985	8.636
38	-	-	-	1.000	-	1.000	0.225	3.075	9.154
39	-	-	-	1.000	-	1.000	0.217	3.167	9.704
40	-	-	-	1.000	-	1.000	0.208	3.262	10.286
41	-	-	-	1.000	-	1.000	0.200	3.360	10.903
42	-	-	-	1.000	-	1.000	0.193	3.461	11.557
43	-	-	-	1.000	-	1.000	0.185	3.565	12.250
44	-	-	-	1.000	-	1.000	0.178	3.671	12.985
45	-	-	-	1.000	-	1.000	0.171	3.782	13.765
46	-	-	-	1.000	-	1.000	0.165	3.895	14.590
47	-	-	-	1.000	-	1.000	0.158	4.012	15.466
48	-	-	-	1.000	-	1.000	0.152	4.132	16.394
49	-	-	-	1.000	-	1.000	0.146	4.256	17.378
50	-	-	-	1.000	-	1.000	0.141	4.384	18.420
51	-	-	-	1.000	-	1.000	0.135	4.515	19.525
52	-	-	-	1.000	-	1.000	0.130	4.651	20.697
53	-	-	-	1.000	-	1.000	0.125	4.790	21.939
54	-	-	-	1.000	-	1.000	0.120	4.934	23.255
55	-	-	-	1.000	-	1.000	0.116	5.082	24.650
56	-	-	-	1.000	-	1.000	0.111	5.235	26.129
57	-	-	-	1.000	-	1.000	0.107	5.392	27.697
58	-	-	-	1.000	-	1.000	0.103	5.553	29.359
59	-	-	-	1.000	-	1.000	0.099	5.720	31.120
60	-	-	-	1.000	-	1.000	0.095	5.892	32.988
61	-	-	-	1.000	-	1.000	0.091	6.068	34.967
62	-	-	-	1.000	-	1.000	0.088	6.250	37.065
63	-	-	-	1.000	-	1.000	0.085	6.438	39.289
64	-	-	-	1.000	-	1.000	0.081	6.631	41.646
65	-	-	-	1.000	-	1.000	0.078	6.830	44.145
66	-	-	-	1.000	-	1.000	0.075	7.035	46.794
67	-	-	-	1.000	-	1.000	0.072	7.246	49.601
68	-	-	-	1.000	-	1.000	0.069	7.463	52.577
69	-	-	-	1.000	-	1.000	0.067	7.687	55.732
70	-	-	-	1.000	-	1.000	0.064	7.918	59.076
71	-	-	-	1.000	-	1.000	0.062	8.155	62.620
72	-	-	-	1.000	-	1.000	0.059	8.400	66.378
73	-	-	-	1.000	-	1.000	0.057	8.652	70.360
74	-	-	-	1.000	-	1.000	0.055	8.912	74.582
75	-	-	-	1.000	-	1.000	0.053	9.179	79.057
76	-	-	-	1.000	-	1.000	0.051	9.454	83.800
77	-	-	-	1.000	-	1.000	0.049	9.738	88.828
78	-	-	-	1.000	-	1.000	0.047	10.030	94.158
79	-	-	-	1.000	-	1.000	0.045	10.331	99.808
80	-	-	-	1.000	-	1.000	0.043	10.641	105.796
81	-	-	-	1.000	-	1.000	0.042	10.960	112.144
82	-	-	-	1.000	-	1.000	0.040	11.289	118.872
83	-	-	-	1.000	-	1.000	0.039	11.628	126.005
84	-	-	-	1.000	-	1.000	0.037	11.976	133.565
85	-	-	-	1.000	-	1.000	0.036	12.336	141.579
86	-	-	-	1.000	-	1.000	0.034	12.706	150.074
87	-	-	-	1.000	-	1.000	0.033	13.087	159.078
88	-	-	-	1.000	-	1.000	0.032	13.480	168.623
89	-	-	-	1.000	-	1.000	0.030	13.884	178.740
90	-	-	-	1.000	-	1.000	0.029	14.300	189.465
91	-	-	-	1.000	-	1.000	0.028	14.729	200.832
92	-	-	-	1.000	-	1.000	0.027	15.171	212.882
93	-	-	-	1.000	-	1.000	0.026	15.627	225.655
94	-	-	-	1.000	-	1.000	0.025	16.095	239.195
95	-	-	-	1.000	-	1.000	0.024	16.578	253.546
96	-	-	-	1.000	-	1.000	0.023	17.076	268.759
97	-	-	-	1.000	-	1.000	0.022	17.588	284.885
98	-	-	-	1.000	-	1.000	0.021	18.115	301.978
99	-	-	-	1.000	-	1.000	0.021	18.659	320.096
100	-	-	-	1.000	-	1.000	0.020	19.219	339.302
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⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

(1) TIME PERIOD (IN YEARS)
(2) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 1
(3) PROBABILITY OF DYING IN A GIVEN YEAR FOR CLAIMANT 2
(4) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 1
(5) PROBABILITY OF SURVIVING t YEARS FOR CLAIMANT 2
(6) = (4) * (5) - PROBABILITY THAT BOTH ARE SURVIVE FOR T YEARS
(7) = (4) + (5) - 2* (6) - PROB. THAT EXACTLY ONE IS ALIVE AFTER T YEARS
(8) DISCOUNT FACTOR AT 4% FOR T YEARS
(9) INDEMNITY BENEFIT INFLATION RATE @3% PER YEAR
(10) MEDICAL INFLATION RATE @ 6% PER YEAR
(11) CLAIM INDEX NUMBER
(12) PROVIDED BY BWC
(13) PROVIDED BY BWC
(14) PROVIDED BY BWC
(15) PROVIDED BY BWC
(16) PROVIDED BY BWC
(17) PROVIDED BY BWC
(18) = SUMPRODUCT OF (4) & (9) FOR NOMINAL AND (4), (9) & (8) FOR DISCOUNTED
(19) = SUMPRODUCT OF (5) & (9) FOR NOMINAL AND (5), (9) & (8) FOR DISC.
(20) = SUMPRODUCT OF (6) & (9) FOR NOMINAL AND (6), (9) & (8) FOR DISC.
(21) = SUMPRODUCT OF (7) & (9) FOR NOMINAL AND (7), (9) & (8) FOR DISC.
(22) SECTION 8A, EXHIBIT 6, SHEET 1, COL. (2) * 12
(23) N/A
(24) = (20) * (22) + (21) * (23)
(25) N/A
(26) = (25) * (12)
(27) N/A
(28) = SUMPRODUCT OF (4) & (10) FOR NOMINAL AND (4), (8) & (10) FOR DISCOUNTED
(29) = (27) * (28)

OHIO BUREAU OF WORKERS COMPENSATION
COAL WORKERS PNEUMOCONIOSIS FUND
AS OF DECEMBER 31, 2012

SECTION 8A
EXHIBIT 8
SHEET 1

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
17	0.16%	0.03%
18	0.16%	0.03%
19	0.17%	0.03%
20	0.18%	0.03%
21	0.18%	0.03%
22	0.19%	0.03%
23	0.20%	0.03%
24	0.21%	0.03%
25	0.22%	0.03%
26	0.23%	0.03%
27	0.24%	0.03%
28	0.24%	0.03%
29	0.25%	0.03%
30	0.25%	0.04%
31	0.25%	0.04%
32	0.25%	0.04%
33	0.25%	0.04%
34	0.25%	0.04%
35	0.26%	0.05%
36	0.26%	0.05%
37	0.27%	0.06%
38	0.28%	0.06%
39	0.30%	0.07%
40	0.34%	0.07%
41	0.38%	0.08%
42	0.43%	0.08%
43	0.48%	0.09%
44	0.55%	0.09%
45	0.63%	0.10%
46	0.66%	0.10%
47	0.69%	0.11%
48	0.72%	0.12%
49	0.77%	0.13%
50	0.84%	0.14%
51	0.93%	0.16%

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
52	1.04%	0.17%
53	1.16%	0.19%
54	1.29%	0.21%
55	1.41%	0.23%
56	1.54%	0.26%
57	1.68%	0.29%
58	1.83%	0.34%
59	2.00%	0.39%
60	2.20%	0.44%
61	2.42%	0.51%
62	2.67%	0.58%
63	2.96%	0.67%
64	3.29%	0.76%
65	3.67%	0.86%
66	4.10%	0.97%
67	4.55%	1.08%
68	5.02%	1.18%
69	5.48%	1.27%
70	5.94%	1.37%
71	6.40%	1.50%
72	6.87%	1.65%
73	7.38%	1.83%
74	7.96%	2.04%
75	8.62%	2.27%
76	9.38%	2.53%
77	10.22%	2.84%
78	11.13%	3.17%
79	12.09%	3.54%
80	13.08%	3.94%
81	14.08%	4.40%
82	15.11%	4.92%
83	16.18%	5.49%
84	17.35%	6.10%
85	18.64%	6.77%
86	20.11%	7.53%
87	21.79%	8.40%
88	23.69%	9.38%
89	25.84%	10.46%
90	28.24%	11.63%
91	30.92%	12.88%

MORTALITY TABLE

Age	Male	Female
(1)	(2)	(3)
92	33.86%	14.20%
93	37.10%	15.59%
94	40.62%	17.07%
95	44.45%	18.62%
96	47.48%	20.25%
97	50.61%	21.97%
98	53.92%	23.77%
99	57.55%	25.67%
100	61.58%	27.64%
101	66.14%	29.66%
102	71.34%	31.71%
103	77.28%	33.85%
104	84.07%	36.10%
105	91.83%	38.36%
106	100.00%	40.52%
107		42.48%
108		44.44%
109		46.45%
110		48.23%
111		49.51%
112		50.00%
113		50.00%
114		50.00%
115		50.00%
116		50.00%
117		50.00%
118		50.00%
119		50.00%
120		100.00%

(1) AGE OF CLAIMANT

(2) & (3) PROBABILITY OF DYING IN A GIVEN YEAR

NOTE: MORTALITY RATES BASED ON DELOITTE STUDY TITLED “OHIO BUREAU OF WORKERS' COMPENSATION, DOCUMENTATION OF 2010 MORTALITY STUDY” DATED SEPTEMBER 10, 2010.