American Electric Power UMWA Postretirement Health Care Plan

Actuarial Valuation Report Postretirement Welfare Cost for Fiscal Year Ending December 31, 2013, under U.S. GAAP

April 2013



Table of Contents

Purpos	e and actuarial statement	1
Section	1 : Summary of key results	5
Ben	efit cost, assets & obligations	5
Emp	oloyer Contributions	5
Pos	tretirement Welfare Cost and Funded Position	6
Cha	nge in Postretirement Welfare Cost	6
Basi	is for Valuation	7
Section	2 : Accounting exhibits	9
2.1	Balance sheet asset/(liability)	9
2.2	Summary and Comparison of Postretirement Benefit Cost and Cash Flows	10
2.3	Information for Deferred Tax Calculations	11
2.4	Detailed Results for Postretirement Welfare cost and Funded Position	12
2.5	Expected Benefit Disbursements, Administrative Expenses, and Participant Contributions	13
Section	3 : Data exhibits	15
3.1	Plan participant data	15
3.2	Age and service distribution of participating employees	17
Append	lix A : Statement of actuarial assumptions and methods	19
Append	lix B : Summary of substantive plan provisions	23
Append	lix C : Results by business unit	25



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1

Purpose and actuarial statement

Purposes of valuation

American Electric Power retained Towers Watson Pennsylvania Inc. ("Towers Watson"), to perform an actuarial valuation of its postretirement welfare programs for the purpose of determining the following:

- (1) The value of benefit obligations as of January 1, 2013 and American Electric Power's postretirement welfare cost for fiscal year ending December 31, 2013 in accordance with FASB Accounting Standards Codification Topic 715 (ASC 715-60). It is anticipated that a separate report will be prepared for year-end financial reporting and disclosure purposes.
- (2) Plan reporting information in accordance with FASB Accounting Standards Codification Topic 965 (ASC 965).

This valuation has been conducted in accordance with generally accepted actuarial principles and practices.

Reliances

In preparing the results presented in this report, we have relied upon information regarding plan provisions, participants, claims data, contributions and assets (if any) provided by American Electric Power and other persons or organizations designated by American Electric Power. We have reviewed this information for overall reasonableness and consistency, but have neither audited nor independently verified this information. Based on discussions with and concurrence by the plan sponsor, assumptions or estimates may have been made if data were not available. We are not aware of any errors or omissions in the data that would have a significant effect on the results of our calculations. We have relied on all the information provided as complete and accurate. The results presented in this report are dependent upon the accuracy and completeness of the underlying data and information. Any material inaccuracy in the data and information provided to us may have produced results that are not suitable for the purposes of this report and such inaccuracies, as corrected by American Electric Power, may produce materially different results that could require that a revised report be issued.

Effects of Health Care Reform

In March 2010, the Patient Protection and Affordable Care Act (PPACA) and Health Care and Education Reconciliation Act (HCERA) were enacted. The key aspects of the Acts affecting American Electric Power's benefit obligation and cost of providing retiree medical benefits are:

- Availability of subsidies from the Early Retiree Reinsurance Program (ERRP)
- Mandatory coverage for adult children until age 26 beginning in 2011
- Loss of the tax free status of the Retiree Drug Subsidy (RDS) beginning in 2013
- Excise ("Cadillac") tax on high-cost plans beginning in 2018
- Transitional reinsurance fees beginning in 2014

All subsequent measurements for tax purposes reflect the new law.



This valuation reflects our understanding of the relevant provisions of PPACA and HCERA. The IRS has yet to issue final guidance with respect to many aspects of this law. It is possible that future guidance may conflict with our understanding of these laws based on currently available guidance and could therefore affect the results shown in this report.

Nature of actuarial calculations

The results shown in this report have been developed based on actuarial assumptions that, to the extent evaluated or selected by Towers Watson, we consider reasonable and within the "best-estimate range" as described by the Actuarial Standards of Practice. Other actuarial assumptions could also be considered to be reasonable and within the best-estimate range. Thus, reasonable results differing from those presented in this report could have been developed by selecting different points within the best-estimate ranges for various assumptions.

The results shown in this report are estimates based on data that may be imperfect and on assumptions about future events that cannot be predicted with certainty. The effects of certain plan provisions may be approximated, or determined to be insignificant and therefore not valued. Assumptions may be made, in consultation with American Electric Power, about participant data or other factors. Reasonable efforts were made in preparing this valuation to confirm that items that are significant in the context of the actuarial liabilities or costs are treated appropriately, and are not excluded or included inappropriately. The numbers shown in this report are not rounded. This is for convenience only and should not imply precision; by their nature, actuarial calculations are not precise.

If overall future plan experience produces higher benefit payments than assumed, the relative level of plan costs or contribution requirements reported in this valuation will likely increase in future valuations (and vice versa). Future actuarial measurements may differ significantly from the current measurements presented in this report due to many factors, including: plan experience differing from that anticipated by the economic or demographic assumptions; increases or reductions expected as part of the natural operation of the methodology used for the measurements (such as the end of an amortization period); and changes in plan provisions or applicable law. It is beyond the scope of this valuation to analyze the potential range of future postretirement welfare contributions, but we can do so upon request.

See Basis for Valuation in Section 1 below for a discussion of any material events that have occurred after the valuation date that are not reflected in this valuation.

Limitations on use

This report is provided subject to the terms set out herein and in our master consulting services agreement dated July 29, 2004, and any accompanying or referenced terms and conditions.

The information contained in this report was prepared for the internal use of American Electric Power and its auditors in connection with our actuarial valuation of the postretirement welfare plan as described in Purposes of Valuation above. It is not intended for and may not be used for other purposes, and we accept no responsibility or liability in this regard. American Electric Power may distribute this actuarial valuation report to the appropriate authorities who have the legal right to require American Electric Power to provide them this report, in which case American Electric Power will use best efforts to notify Towers Watson in advance of this distribution, and will include the non-reliance notice included at the end of this report. Further distribution to, or use by, other parties of all or part of this report is expressly prohibited without Towers Watson's prior written consent. In the



absence of such consent and an express assumption of responsibility, we accept no responsibility whatsoever for any consequences arising from any third party relying on this report or any advice relating to its contents. There are no intended third-party beneficiaries of this report or the work underlying it.

Professional qualifications

The undersigned consulting actuaries are members of the Society of Actuaries and meet the "Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States" relating to postretirement welfare plans. Our objectivity is not impaired by any relationship between American Electric Power and our employer, Towers Watson Pennsylvania Inc.

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Consultant

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Towers Watson Pennsylvania Inc.

April 2013

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Section 1: Summary of key results

Benefit cost, assets & obligations

All monetary amounts shown in US Dollars
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Elecal Versi Berri	All monetary amounts shown in 03	11	January 4, 0040
Fiscal Year Begin		January 1, 2013	January 1, 2013
Benefit Cost/ (Income)	Net Periodic Postretirement Benefit Cost/(Income)	10,028,620	10,250,773
Measurement Dat	e	January 1, 2013	January 1, 2012
Plan Assets	Fair Value of Assets (FVA)	0	0
Benefit Obligations	Accumulated Postretirement Benefit Obligation (APBO)	116,930,327	101,985,143
Funded Status	Funded Status	(116,930,327)	(101,985,143)
Accumulated	Net Transition Obligation/(Asset)	0	1,036,845
Other	Net Prior Service Cost/(Credit)	0	0
Comprehensive (Income)/Loss	Net Loss/(Gain)	63,394,243	53,479,113
(,	Total Accumulated Other Comprehensive (Income)/Loss	63,394,243	54,515,958
Assumptions ¹	Discount Rate	3.950%	4.750%
	Current Health Care Cost Trend Rate	6.750%	7.000%
	Ultimate Health Care Cost Trend Rate	5.000%	5.000%
	Year of Ultimate Trend Rate	2020	2020
Participant Data	Census Date	January 1, 2013	January 1, 2012
Plan reporting (AS	C 965) for Plan Year Beginning	January 1, 2013	January 1, 2012
	Present value of accumulated benefits	116,930,327	110,729,518
	Market value of assets	0	0
	Plan reporting discount rate	3.95%	4.75%
Employer Contrib	utions (net of Medicare subsidy)	Plan Year 2013	Plan Year 2012
Cash Flow	Expected benefit payments and expenses, net of participant contributions	4,168,502	3,998,745

Employer Contributions

Employer contributions are the amounts paid by American Electric Power to provide for postretirement benefits, net of participant contributions and Medicare subsidy.

American Electric Power's funding policy is to pay claims costs for the year and administrative expenses, less participant contributions and any Medicare Part D subsidy (RDS) received. We understand the sponsor may deviate from this policy, as permitted by its terms, based on cash, tax or other considerations.



Rates are expressed on an annual basis where applicable.

Postretirement welfare cost and funded position

The cost of the postretirement welfare plan is determined in accordance with generally accepted accounting principles in the U.S. ("U.S. GAAP"). The Fiscal 2013 postretirement welfare benefit cost for the plan is \$10,028,620. Under U.S. GAAP, the funded position (fair value of plan assets less the projected benefit obligation, or "APBO") of each postretirement welfare plan at the plan sponsor's fiscal year-end (measurement date) is required to be reported as a liability. The APBO is the actuarial present value of benefits attributed to service rendered prior to the measurement date, taking into consideration expected future pay increases for pay-related plans. The plan's overfunded (underfunded) APBO as of January 1, 2013, was \$(116,930,327), based on the fair value of plan assets of \$0 and the APBO of \$116,930,327.

Fiscal year-end financial reporting information and disclosures are prepared before detailed participant data and full valuation results are available. Therefore, the postretirement benefit asset (liability) at December 31, 2012, was derived from a roll forward of the January 1, 2012 valuation results, adjusted for the year-end discount rate and asset values, as well as significant changes in plan provisions and participant population. The current fiscal year-end financial reporting information will be developed based on the results of the January 1, 2013 valuation, projected to the end of the year and similarly adjusted for the year-end discount rate and asset values, as well as significant changes in plan provisions and participant population.

Change in postretirement welfare cost

The postretirement welfare cost decreased from \$10,250,773 in fiscal 2012 to \$10,028,620 in fiscal 2013, as set forth below:

	All monetary amounts shown in US Dollars	
		Postretirement welfare cost
Pri	or year	10,250,773
Ch	ange due to:	
•	Expected based on prior valuation and contributions during prior year	(1,122,787)
•	Unexpected noninvestment experience	(611,515)
•	Assumption changes	1,512,149
•	Changes in substantive plan	0
Cu	rrent year	10,028,620

Significant reasons for these changes include the following:

 The mortality table was updated to reflect an additional year of mortality improvements which increased the postretirement welfare cost.



Basis for valuation

Appendix A summarizes the assumptions and methods used in the valuation. Appendix B summarizes our understanding of the principal provisions of the plan being valued. The most recent plan change reflected in this valuation was effective on January 1, 2005.

Changes in Assumptions

The following assumptions were revised for the 2013 valuation: discount rate, per capita claims costs, excise tax, and mortality.

oxologically and mortality.	
Changes in Methods	
None.	
Changes in Benefits Valued	
None.	

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Section 2: Accounting exhibits

2.1 Balance sheet asset/(liability)

All monetan	amounts show	n in	LIS	Dollars

	All monetary amounts shown in US Dollars			
Me	asurement Date	January 1, 2013	January 1, 2012	
Α	Development of Balance Sheet Asset/(Liability) ¹			
	 Accumulated postretirement benefit obligation (APBO) 	116,930,327	101,985,143	
	2 Fair value of assets (FVA)	0	0	
	3 Net balance sheet asset/(liability)	(116,930,327)	(101,985,143)	
В	Current and Noncurrent Allocation			
	1 Noncurrent assets	0	0	
	2 Current liabilities	(4,168,502)	(3,998,745)	
	3 Noncurrent liabilities	(112,761,825)	(97,986,398)	
	4 Net balance sheet asset/(liability)	(116,930,327)	(101,985,143)	
С	Accumulated Other Comprehensive (Income)/Loss			
	1 Net transition obligation/(asset)	0	1,036,845	
	2 Net prior service cost/(credit)	0	0	
	3 Net loss/(gain)	63,394,243	53,479,113	
	4 Accumulated other comprehensive (income)/loss ²	63,394,243	54,515,958	
D	Assumptions and Dates ³			
	1 Discount rate	3.950%	4.750%	
	2 Current health care cost trend rate	6.750%	7.000%	
	3 Ultimate health care cost trend rate	5.000%	5.000%	
	4 Year of ultimate trend rate	2020	2020	
	5 Census date	January 1, 2013	January 1, 2012	

Rates are expressed on an annual basis where applicable.



Whether the amounts in this table that differ from those disclosed at year-end must be disclosed in subsequent interim financial statements should be determined.

Amount shown is pre-tax and should be adjusted by plan sponsor for tax effects.

2.2 Summary and comparison of postretirement benefit cost and cash flows

	All monetary amounts shown in 03 Dollars			
Fis	cal `	Year Ending	December 31, 2013	December 31, 2012
Α	To	tal Postretirement Benefit Cost		
	1	Employer service cost	1,621,862	1,244,527
	2	Interest cost	4,601,281	4,809,541
	3	Expected return on assets	0	0
	4	Subtotal	6,223,143	6,054,068
	5	Transition obligation/(asset) amortization	0	1,036,845
	6	Net prior service cost/(credit) amortization	0	0
	7	Net loss/(gain) amortization	3,805,477	3,159,860
	8	Amortization subtotal	3,805,477	4,196,705
	9	Net periodic postretirement benefit cost/(income)	10,028,620	10,250,773
В	As	sumptions ¹		
	1	Discount rate	3.95 %	4.75 %
	2	Current health care cost trend rate	6.75 %	7.00 %
	3	Ultimate health care cost trend rate	5.00 %	5.00 %
	4	Year ultimate trend rate is expected	2020	2020
С	Се	nsus Date	January 1, 2013	January 1, 2012
D	As	sets at Beginning of Year		
	1	Fair market value	0	0
Ε	Ca	sh Flow	Expected	Actual
	1	Employer contributions	4,168,502	4,511,036
	2	Plan participants' contributions	0	0
	3	Benefits paid by the Employer	4,168,502	4,511,036
	4	Expected Medicare subsidy	(321,373)	N/A

These assumptions were used to calculate the Net Postretirement Benefit Cost/ (Income) as of the beginning of the year. Rates are expressed on an annual basis where applicable. For assumptions used for interim measurement periods, if any, refer to Appendix A.



2.3 Information for deferred tax calculations

The following information is provided for purposes of determining the deferred portion of the tax provision and the deferred tax asset associated with the postretirement welfare cost and obligation, respectively. This information reflects the tax-exempt status of the Retiree Drug Subsidy ("RDS") payment at the valuation date.

		Book Basis Net of Part D Subsidy	Tax Basis Net of Part D Subsidy after 2012
Α	Postretirement Welfare Cost		
	1 Fiscal 2013	10,028,620	9,643,694
	2 Fiscal 2012	10,250,773	10,849,929
В	Funded Position		
	1 Overfunded (underfunded) APBO	(116,930,327)	(116,930,327)

2.4 Detailed results for postretirement welfare cost and funded position

De	taile	ed results	January 1, 2013	January 1, 2012
Α	Se	ervice Cost		
	1	Medical	1,621,862	1,244,527
В	Ac	ccumulated Postretirement Benefit Obligation [APBO]		
	1	Medical ¹ :		
		a Participants currently receiving benefits	83,545,811	70,185,126
		b Fully eligible active participants	18,521,924	22,058,872
		c Other participants	14,862,592	9,741,145
		d Total	116,930,327	101,985,143
С	As	ssets		
	1	Fair value [FV]	0	0
D	Fu	unded Position		
	1	Overfunded (underfunded) APBO	(116,930,327)	(101,985,143)
E	An	mounts in Accumulated Other Comprehensive Income		
	1	Transition obligation/(asset)	0	1,036,845
	2	Net prior service cost/(credit)	0	0
	3	Net loss/(gain)	63,394,243	53,479,113
	4	Total	63,394,243	54,515,958
F	Eff	ffect of Change in Health Care Cost Trend Rate		
	1	One-percentage-point increase:		
		a Sum of service cost and interest cost	1,586,601	1,355,267
		b APBO	22,181,206	19,464,828
	2	One-percentage-point decrease:		
		a Sum of service cost and interest cost	(1,162,067)	(1,019,786)
		b APBO	(17,196,649)	(15,327,142)

The Transitional Reinsurance Fee was allocated among the different pieces of the medical liability in proportion to the total medical liability.



2.5 Expected benefit disbursements, administrative expenses and participant contributions

			y announts on our miles Demans	
		-	January 1, 2013	January 1, 2012
Α	Me	edical		
	1	Gross disbursements	4,489,875	4,304,170
	2	Participant contributions	0	0
	3	Net disbursements	4,489,875	4,304,170
В	RD	os		
	1	Gross disbursements	(321,373)	(305,425)
	2	Participant contributions	0	0
	3	Net disbursements	(321,373)	(305,425)
С	То	tal		
	1	Gross disbursements	4,168,502	3,998,745
	2	Participant contributions	0	0
	3	Net disbursements	4,168,502	3,998,745

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Section 3: Data exhibits

3.1 Plan participant data

All monetary amounts snown in OS Dollars									
Се	ทรเ	ıs D	ate	January 1, 2013	January 1, 2012				
Α	Pa	rtici	pating Employees						
	1	Nu	ımber						
		а	Fully eligible	24	37				
		b	Other	34	36				
		С	Total participating employees	58	73				
	2	Av	erage age	46.0	48.0				
	3		rerage credited service	19.0	20.1				
	4		erage future working life						
		а	to expected retirement age	14.4	12.7				
		b	to full eligibility age	9.6	9.9				
В	Re	tire	es and Surviving Spouses						
_	1		etirees and surviving spouses						
	·	а	Number under 65	47	43				
		b	Number 65 and older	234	243				
				-					
		С	Total	281	286				
		d	Number with married/family health care coverage	116	117				
		е	Number with single health care coverage	165	169				
		f	Average age	76.1	75.9				
		g	Age Distribution at January 1, 2013	_					
Ag	е		Numb	er					
			Under 55	2					
				14					
				27					
				45					
				25					
				32					
				66 					
			85 and over	70					



C Dependents

1	Number	116	117
2	Average age	69.5	69.3

3 Age Distribution at January 1, 2013

Age		Number
	Under 55	7
	55-59	14
	60-64	22
	65-69	18
	70-74	18
	75-79	17
	80-84	9
	85 and over	11

Participant data was supplied by the AEP as of the census date.

3.2 Age and service distribution of participating employees

Attained Years of Credited Service and Number										
Attained Ag	je 📗	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	Total
Under 25										
25-29		1	3							4
30-34		3	4	1						8
35-39			4	3						7
40-44			2	2	1					5
45-49			1	4	1	1				7
50-54			2	2		1		3	1	9
55-59				1			1	4	10	16
60-64									2	2
65-69										
70 & over										
Total		4	16	13	2	2	1	7	13	58 ¹
Average:	Age: Service	46 19	Numbe	er of Participants:	Fully e	eligible 24 34	Males Femal			
Census data a	as of January 1,				Cuici		Ciliai			



Ages and service totals for purposes of determining category are based on exact (not rounded) values.

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Appendix A: Statement of actuarial assumptions and methods

Economic Assumptions

Discount rate		3.95 %
Medical cost trend rate	2013 2014	6.75 6.50
	2015	6.25
	2016	6.00
	2017	5.75
	2018	5.50
	2019	5.25
	2020+	5.00

Demographic Assumptions

Mortality Preretirement: RP2000, projected to 2028.

Postretirement: RP2000, projected to 2020.

Disability Rates vary by age as indicated by the following sample values:

Age	Rate
20	10.7%
30	5.9
40	2.1
≥45	0.0

Termination Rates vary by age as indicated by the following sample values

go do maiodiod by the fellowing cample values						
Age	Rate					
20	0.12					
30	0.120					
40	0.147					
50	0.357					
50	1.380					

Retirement	Rates vary by age as	s indicated by	the following values:
1 Cui Ci i Ci i	Traited vary by age a	3 III laicatea by	the following values.

Age	Age Rate		Rate			
55	6.0%	61	10.0%			
56	6.5	62	12.0			
57	7.0	63	15.0			
58	7.5	64	20.0			
59	8.0	65	50.0			
60	9.0	66 – 69	30.0			
		70	100.0			

Percent married 95%

Spouses ages Wives three years younger than husbands.

Participation rates Employees Dependent

100% 100%

2013 Per Capita Claims Costs

Basis for Per Capita Claim Cost Assumptions

		Age		Post-1993 retirees	Pre-1994 retirees
•	Overall average	< 65	N/A	16,169	16,842
		>=65	(1,007)	9,585	9,585
•	By age group	< 35	N/A	6,737	7,017
		35-49	N/A	7,452	7,762
		40-44	N/A	8,479	8,832
		45-49	N/A	10,366	10,798
		50-54	N/A	12,330	12,844
		55-59	N/A	13,736	14,309
		60-64	N/A	18,669	19,447
		65-69	(900)	7,992	7,992
		70-74	(1,016)	9,218	9,218
		75-79	(1,052)	9,838	9,838
		80-84	(1,043)	10,132	10,132
		85-89	(1,034)	10,409	10,409
		90-94	(945)	9,890	9,890
		>= 95	(765)	8,573	8,573



Development of claims cost

AEP supplied data on retiree medical and prescription drug claim payments for the period October 2008 through September 2012.

Separate medical and prescription drug claim rates were calculated by dividing annual paid claims (from October through September for each 12-month period) by covered lives over these four periods. These claim rates were trended to 2012 and a weighted average was taken to calculate the average pre-65 and post-65 claim rates for medical and prescription drugs. These rates were then age-graded over standard Towers Watson morbidity curves to generate quinquennial 2013 medical and prescription drug rates.

Administrative expenses

\$459 per primary participant in 2013, increasing 3.5% per year.

Excise tax

To determine impact of the excise tax on the UMWA postretirement plan, we projected future gross plan costs using the valuation trend assumption and compared these on a year-by-year basis to the excise tax thresholds beginning in 2018 and projected to future years using CPI (CPI + 1% for 2019). The expected cost of the UMWA plan, which was blended pre-65/post-65 based on headcount, exceeded these thresholds beginning in 2018.

The amount of the excise tax valued was 40% times the portion of the cost exceeding the thresholds, grossed up by dividing this tax by 65% to account for the nondeductibility of these charges for AEP's administrators.

Medicare Part D subsidy

We calibrated our modeling tool to reflect the 2013 cost of the current prescription drug plans for AEP's UMWA post-65 retirees. The tool employs a continuance table of annual retiree drug utilization levels, developed from analyzing the experience of several large Towers Watson clients.

After the plan-specific benefit provisions have been calibrated to current costs, the Modeler trends costs forward to 2013. Actuarial equivalence was determined using the following two-prong approach outlined in the regulations for Medicare Part D:

Gross Value Test – The Modeler calculates the value of standard Medicare Part D coverage and compares it to AEP's plan costs. AEP's plans passed this test by being richer than the projected value of standard Medicare Part D coverage for these groups.

Net Value Test – The net value prong of the test compared the value of Standard Part D coverage in 2013 less the greater of \$374.04 (the national average Part D premium) and 25.5% of the gross value of Part D coverage to the projected 2013 value of AEP coverage.



When the plans are deemed to be actuarially equivalent, the tool calculates the average expected value of the employer subsidy in 2013, using the continuance table calibrated to AEP's plan costs. This produced an average 2013 per person annual employer subsidy of \$1,007.

Methods – Postretirement Welfare Cost and Funded Position

Service cost and APBO Projected unit credit actuarial cost method, allocated in equal

amounts, from the valuation date on or after date of hire to full

eligibility date.

Transition obligation Amortized over 20 years beginning January 1, 1993. As of

January 1, 2013, the transition obligation has been fully

amortized.

Net loss (gain) Net loss (gain) in excess of 10% of the APBO is amortized on a

straight-line basis over the expected average remaining life

expectancy of the inactive participants.

Benefits Not Valued All benefits described in the Plan Provisions section of this report

were valued. Towers Watson has reviewed the plan provisions

with AEP and based on that review is not aware of any

significant benefits required to be valued that were not included.

Timing of benefit payments Benefit payments are assumed to be made uniformly throughout

the year and on average at mid-year.

Change in Assumptions and Methods Since Prior Valuation

The discount rate was decreased from 4.75% to 3.95%.

The mortality table was updated to better reflect future

anticipated experience.

Anticipated per capita claims costs were updated to reflect more

recent experience.

Data Sources

American Electric Power furnished the participant and claims cost data, as well as the accrued postretirement benefits cost as of December 31, 2012. Data were reviewed for reasonableness and consistency, but no audit was performed. We are aware of no errors or omissions in the data that would have a significant effect on the results of our calculation.



Appendix B : Summary of substantive plan provisions

Medical Benefits

Eligibility Participants are eligible upon retirement after age 55 with ten years of

service or attaining age 55 with ten years of service after becoming permanently disabled or age 55 if retired with 20 years of service prior to age 50. Miners with less than ten years at retirement who are permanently and totally disabled as a result of a mine accident will

retain a health services card for life.

Dependent eligibility Eligible dependents are spouse and unmarried children who have not

attained age 27.

Survivor eligibility After the death of retiree or active employee eligible to retire, surviving

spouses are eligible until death or remarriage subject to a \$2,000 per

month earnings limit.

Retiree contributions None.

Benefits provisions The UMWA medical plan covers substantially all medical services.

Effective for retirements on or after January 1, 1994, a \$750 annual per

family deductible is in place for non-Medicare-eligible retirees.

Copayments are required only for outpatient physician visits (\$12 innetwork and \$20 out-of-network, maximum of \$240 per family per 12 months) and for prescription drugs (\$5 retail in PPL, \$10 out of PPL, no copay mail order). A schedule of allowances for vision care is also provided. Benefits after age 65 are coordinated with Medicare.

Expenses associated with the treatment of Black Lung Disease are not

covered by this plan.

Future Plan Changes

No future plan changes were recognized in determining postretirement welfare cost.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.



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Appendix C: Results by business unit

Summary of key assumptions for Appendix C of 2013 UMWA Postretirement Health Care Plan valuation report:

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Discount rate	3.95%	4.55%	4.70%	4.80%	4.95%	5.05%	5.05%	5.05%	5.05%	5.05%	5.05%
Initial medical trend	6.75%	6.50%	6.25%	6.00%	5.75%	5.50%	5.25%	5.00%	5.00%	5.00%	5.00%

Expected mortality 2013 IRS Applicable Mortality Table

Valuation and data January 1, 2013

Per capita claims costs 2013 cost models based on actual claims experience through September 30, 2012

Includes Transitional Reinsurance Fees and Comparative Effectiveness fees under Health Care Reform

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN SUMMARY OF PLAN PARTICIPANTS FOR THE 2013 VALUATION

	Active Participants	Retirees*	Dependent Spouses	Surviving Spouses	Total
225 Cedar Coal Co.	0	113	78	113	304
189 Central Coal Co.	0	0	0	0	0
290 Conesville Coal Preparation Co.	0	23	15	0	38
270 Cook Coal Terminal	58	27	22	0	107
202 Price River Coal	0	0	0	0	0
215 Appalachian Power Co Generation	0	1	1	2	4
103 American Electric Power Service Corporation	<u>0</u>	<u>0</u>	<u>0</u>	<u>2</u>	<u>2</u>
Total	58	164	116	117	455

^{*} includes disabled employees



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN 2013 NET PERIODIC POSTRETIREMENT BENEFIT COST

To a set o	Accumulated Postretirement	Expected Net Benefit	Fair Value	Service	Interest	Expected Return on	Amortiza		Net Periodic Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	58,019,829	3,062,870	0	0	2,232,113	0	0	1,888,439	4,120,552
Appalachian Power Co SEC	\$58,019,829	\$3,062,870	\$0	\$0	\$2,232,113	\$0	\$0	\$1,888,439	\$4,120,552
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	49,694,107	687,548	0	1,621,862	2,013,734	0	0	1,617,452	5,253,048
Ohio Power Co FERC	\$49,694,107	\$687,548	\$0	\$1,621,862	\$2,013,734	\$0	\$0	\$1,617,452	\$5,253,048
290 Conesville Coal Preparation Company	9,204,391	418,083	0	0	355,434	0	0	299,586	655,020
Ohio Power Co SEC	\$58,898,498	\$1,105,632	\$0	\$1,621,862	\$2,369,168	\$0	\$0	\$1,917,038	\$5,908,068
189 Central Coal Co.	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$116,918,327	\$4,168,502	\$0	\$1,621,862	\$4,601,281	\$0	\$0	\$3,805,477	\$10,028,620



ASC 715-60 Cost

	Cost										
					Projec	cted Net Perio	dic Postretiren	nent Benefit C	ost		
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Location											
225 Cedar Coal Co.	4,120,552	3,619,657	3,370,997	3,163,294	2,948,354	2,763,190	2,624,214	2,489,642	2,359,361	2,235,052	2,115,183
Appalachian Power Co SEC	4,120,552	3,619,657	3,370,997	3,163,294	2,948,354	2,763,190	2,624,214	2,489,642	2,359,361	2,235,052	2,115,183
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	0	0	0	0	0	0	0	0	0	0	0
270 Cook Coal Terminal	5,253,048	4,827,894	4,838,748	4,902,375	4,923,141	4,997,971	5,185,903	5,382,776	5,590,273	5,807,635	6,037,377
Ohio Power Co FERC	5,253,048	4,827,894	4,838,748	4,902,375	4,923,141	4,997,971	5,185,903	5,382,776	5,590,273	5,807,635	6,037,377
290 Conesville Coal Preparation Company	655,020	579,741	544,536	517,240	488,567	466,221	450,850	434,819	418,642	402,407	385,421
Ohio Power Co SEC	5,908,068	5,407,635	5,383,284	5,419,615	5,411,708	5,464,192	5,636,753	5,817,595	6,008,915	6,210,042	6,422,798
189 Central Coal Co.	0	0	0	0	0	0	0	0	0	0	0
Miscellaneous											
Total	\$10,028,620	\$9,027,292	\$8,754,281	\$8,582,909	\$8,360,062	\$8,227,382	\$8,260,967	\$8,307,237	\$8,368,276	\$8,445,094	\$8,537,981



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2014 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated	Expected Net				Expected			Net Periodic
	Postretirement	Benefit	Fair Value	Service	Interest	Return on	Amortiza	tions	Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	51,818,813	3,080,401	0	0	2,288,456	0	0	1,331,201	3,619,657
Appalachian Power Co SEC	\$51,818,813	\$3,080,401	\$0	\$0	\$2,288,456	\$0	\$0	\$1,331,201	\$3,619,657
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	47,698,523	754,620	0	1,386,164	2,216,377	0	0	1,225,353	4,827,894
Ohio Power Co FERC	\$47,698,523	\$754,620	\$0	\$1,386,164	\$2,216,377	\$0	\$0	\$1,225,353	\$4,827,894
290 Conesville Coal Preparation Company	8,283,293	441,963	0	0	366,947	0	0	212,794	579,741
Ohio Power Co SEC	\$55,981,816	\$1,196,583	\$0	\$1,386,164	\$2,583,324	\$0	\$0	\$1,438,147	\$5,407,635
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$107,800,629	\$4,276,984	\$0	\$1,386,164	\$4,871,780	\$0	\$0	\$2,769,348	\$9,027,292

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2015 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated Postretirement	Expected Net Benefit	Fair Value	Service	Interest	Expected Return on	Amortiza	ntions	Net Periodic Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	49,783,016	3,103,152	0	0	2,267,715	0	0	1,103,282	3,370,997
Appalachian Power Co SEC	\$49,783,016	\$3,103,152	\$0	\$0	\$2,267,715	\$0	\$0	\$1,103,282	\$3,370,997
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	49,314,303	833,754	0	1,382,473	2,363,380	0	0	1,092,895	4,838,748
Ohio Power Co FERC	\$49,314,303	\$833,754	\$0	\$1,382,473	\$2,363,380	\$0	\$0	\$1,092,895	\$4,838,748
290 Conesville Coal Preparation Company	8,008,188	401,430	0	0	367,060	0	0	177,476	544,536
Ohio Power Co SEC	\$57,322,491	\$1,235,184	\$0	\$1,382,473	\$2,730,440	\$0	\$0	\$1,270,371	\$5,383,284
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$107,105,507	\$4,338,336	\$0	\$1,382,473	\$4,998,155	\$0	\$0	\$2,373,653	\$8,754,281



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2016 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated Postretirement	Expected Net Benefit	Fair Value	Service	Interest	Expected Return on	Amortiza	tions	Net Periodic Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	48,148,868	3,133,361	0	0	2,236,826	0	0	926,468	3,163,294
Appalachian Power Co SEC	\$48,148,868	\$3,133,361	\$0	\$0	\$2,236,826	\$0	\$0	\$926,468	\$3,163,294
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	51,374,188	931,193	0	1,402,645	2,511,201	0	0	988,529	4,902,375
Ohio Power Co FERC	\$51,374,188	\$931,193	\$0	\$1,402,645	\$2,511,201	\$0	\$0	\$988,529	\$4,902,375
290 Conesville Coal Preparation Company	7,843,704	429,376	0	0	366,314	0	0	150,926	517,240
Ohio Power Co SEC	\$59,217,892	\$1,360,569	\$0	\$1,402,645	\$2,877,515	\$0	\$0	\$1,139,455	\$5,419,615
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$107,366,760	\$4,493,930	\$0	\$1,402,645	\$5,114,341	\$0	\$0	\$2,065,923	\$8,582,909

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2017 NET PERIODIC POSTRETIREMENT BENEFIT COST

Location	Accumulated Postretirement Benefit Obligation	Expected Net Benefit Payments	Fair Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortiza PSC	tions (G)/L	Net Periodic Postretirement Benefit Cost
225 Cedar Coal Co.	46,100,491	3,173,719	0	0	2,204,373	0	0	743,981	2,948,354
Appalachian Power Co SEC	\$46,100,491	\$3,173,719	\$0	\$0	\$2,204,373	\$0	\$0	\$743,981	\$2,948,354
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	53,031,817	1,060,526	0	1,398,911	2,668,390	0	0	855,840	4,923,141
Ohio Power Co FERC	\$53,031,817	\$1,060,526	\$0	\$1,398,911	\$2,668,390	\$0	\$0	\$855,840	\$4,923,141
290 Conesville Coal Preparation Company	7,590,978	396,365	0	0	366,062	0	0	122,505	488,567
Ohio Power Co SEC	\$60,622,795	\$1,456,891	\$0	\$1,398,911	\$3,034,452	\$0	\$0	\$978,345	\$5,411,708
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$106,723,286	\$4,630,610	\$0	\$1,398,911	\$5,238,825	\$0	\$0	\$1,722,326	\$8,360,062



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2018 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated Postretirement	Expected Net Benefit	Fair Value	Service	Interest	Expected Return on	Amortiza	itions	Net Periodic Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	44,394,709	3,452,338	0	0	2,155,835	0	0	607,355	2,763,190
Appalachian Power Co SEC	\$44,394,709	\$3,452,338	\$0	\$0	\$2,155,835	\$0	\$0	\$607,355	\$2,763,190
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	55,124,172	1,240,704	0	1,419,323	2,824,505	0	0	754,143	4,997,971
Ohio Power Co FERC	\$55,124,172	\$1,240,704	\$0	\$1,419,323	\$2,824,505	\$0	\$0	\$754,143	\$4,997,971
290 Conesville Coal Preparation Company	7,437,308	445,515	0	0	364,473	0	0	101,748	466,221
Ohio Power Co SEC	\$62,561,480	\$1,686,219	\$0	\$1,419,323	\$3,188,978	\$0	\$0	\$855,891	\$5,464,192
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$106,956,189	\$5,138,557	\$0	\$1,419,323	\$5,344,813	\$0	\$0	\$1,463,246	\$8,227,382

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2019 NET PERIODIC POSTRETIREMENT BENEFIT COST

Location	Accumulated Postretirement Benefit Obligation	Expected Net Benefit Payments	Fair Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortiza PSC	ntions (G)/L	Net Periodic Postretirement Benefit Cost
225 Cedar Coal Co.	43,098,206	3,429,907	0	0	2,090,921	0	0	533,293	2,624,214
Appalachian Power Co SEC	\$43,098,206	\$3,429,907	\$0	\$0	\$2,090,921	\$0	\$0	\$533,293	\$2,624,214
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	58,127,296	1,376,788	0	1,490,289	2,976,352	0	0	719,262	5,185,903
Ohio Power Co FERC	\$58,127,296	\$1,376,788	\$0	\$1,490,289	\$2,976,352	\$0	\$0	\$719,262	\$5,185,903
290 Conesville Coal Preparation Company	7,356,266	467,821	0	0	359,824	0	0	91,026	450,850
Ohio Power Co SEC	\$65,483,562	\$1,844,609	\$0	\$1,490,289	\$3,336,176	\$0	\$0	\$810,288	\$5,636,753
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$108,581,768	\$5,274,516	\$0	\$1,490,289	\$5,427,097	\$0	\$0	\$1,343,581	\$8,260,967



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2020 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated	Expected Net				Expected			Net Periodic
	Postretirement	Benefit	Fair Value	Service	Interest	Return on	Amortiza	tions	Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	41,759,220	3,455,369	0	0	2,022,667	0	0	466,975	2,489,642
Appalachian Power Co SEC	\$41,759,220	\$3,455,369	\$0	\$0	\$2,022,667	\$0	\$0	\$466,975	\$2,489,642
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	61,217,149	1,486,923	0	1,564,804	3,133,407	0	0	684,565	5,382,776
Ohio Power Co FERC	\$61,217,149	\$1,486,923	\$0	\$1,564,804	\$3,133,407	\$0	\$0	\$684,565	\$5,382,776
290 Conesville Coal Preparation Company	7,248,269	492,107	0	0	353,765	0	0	81,054	434,819
Ohio Power Co SEC	\$68,465,418	\$1,979,030	\$0	\$1,564,804	\$3,487,172	\$0	\$0	\$765,619	\$5,817,595
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$110,224,638	\$5,434,399	\$0	\$1,564,804	\$5,509,839	\$0	\$0	\$1,232,594	\$8,307,237

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2021 NET PERIODIC POSTRETIREMENT BENEFIT COST

Location	Accumulated Postretirement Benefit Obligation	Expected Net Benefit Payments	Fair Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortiza PSC	ntions (G)/L	Net Periodic Postretirement Benefit Cost
	3	.,						(-)-	
225 Cedar Coal Co.	40,326,518	3,384,717	0	0	1,952,078	0	0	407,283	2,359,361
Appalachian Power Co SEC	\$40,326,518	\$3,384,717	\$0	\$0	\$1,952,078	\$0	\$0	\$407,283	\$2,359,361
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	64,428,437	1,607,312	0	1,643,044	3,296,525	0	0	650,704	5,590,273
Ohio Power Co FERC	\$64,428,437	\$1,607,312	\$0	\$1,643,044	\$3,296,525	\$0	\$0	\$650,704	\$5,590,273
290 Conesville Coal Preparation Company	7,109,927	489,888	0	0	346,834	0	0	71,808	418,642
Ohio Power Co SEC	\$71,538,364	\$2,097,200	\$0	\$1,643,044	\$3,643,359	\$0	\$0	\$722,512	\$6,008,915
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$111,864,882	\$5,481,917	\$0	\$1,643,044	\$5,595,437	\$0	\$0	\$1,129,795	\$8,368,276



AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2022 NET PERIODIC POSTRETIREMENT BENEFIT COST

	Accumulated Postretirement	Expected Net Benefit	Fair Value	Service	Interest	Expected Return on	Amortiza	tions	Net Periodic Postretirement
Location	Benefit Obligation	Payments	of Assets	Cost	Cost	Assets	PSC	(G)/L	Benefit Cost
225 Cedar Coal Co.	38,893,879	3,325,622	0	0	1,881,203	0	0	353,849	2,235,052
Appalachian Power Co SEC	\$38,893,879	\$3,325,622	\$0	\$0	\$1,881,203	\$0	\$0	\$353,849	\$2,235,052
202 Price River Coal Co.	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co SEC	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
270 Cook Coal Terminal	67,760,694	1,727,121	0	1,725,196	3,465,965	0	0	616,474	5,807,635
Ohio Power Co FERC	\$67,760,694	\$1,727,121	\$0	\$1,725,196	\$3,465,965	\$0	\$0	\$616,474	\$5,807,635
290 Conesville Coal Preparation Company	6,966,873	513,384	0	0	339,024	0	0	63,383	402,407
Ohio Power Co SEC	\$74,727,567	\$2,240,505	\$0	\$1,725,196	\$3,804,989	\$0	\$0	\$679,857	\$6,210,042
189 Central Coal Company	0	0	0	0	0	0	0	0	0
Miscellaneous	0	0	0	0	0	0	0	0	0
Total	\$113,621,446	\$5,566,127	\$0	\$1,725,196	\$5,686,192	\$0	\$0	\$1,033,706	\$8,445,094

AMERICAN ELECTRIC POWER UMWA POSTRETIREMENT WELFARE PLAN ESTIMATED 2023 NET PERIODIC POSTRETIREMENT BENEFIT COST

Location	Accumulated Postretirement Benefit Obligation	Expected Net Benefit Payments	Fair Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortiza PSC	tions (G)/L	Net Periodic Postretirement Benefit Cost
225 Cedar Coal Co. Appalachian Power Co SEC	37,449,460	3,295,860	0	0	1,809,002	0	0	306,181	2,115,183
	\$37,449,460	\$3,295,860	\$0	\$0	\$1,809,002	\$0	\$0	\$306,181	\$2,115,183
202 Price River Coal Co. Indiana Michigan Power Co SEC	0	0	0	0	0	0	0	0	0
	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
 270 Cook Coal Terminal Ohio Power Co FERC 290 Conesville Coal Preparation Company Ohio Power Co SEC 	71,224,734	1,793,573	0	1,811,456	3,643,597	0	0	582,324	6,037,377
	\$71,224,734	\$1,793,573	\$0	\$1,811,456	\$3,643,597	\$0	\$0	\$582,324	\$6,037,377
	6,792,513	526,715	0	0	329,886	0	0	55,535	385,421
	\$78,017,247	\$2,320,288	\$0	\$1,811,456	\$3,973,483	\$0	\$0	\$637,859	\$6,422,798
189 Central Coal Company Miscellaneous	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0
Total	\$115,466,707	\$5,616,148	\$0	\$1,811,456	\$5,782,485	\$0	\$0	\$944,040	\$8,537,981

