American Electric Power

UMWA Postretirement Health Care Plan

Actuarial Valuation Report
Postretirement Welfare Cost for Fiscal Year Ending December 31, 2015, under U.S. GAAP

April 2015

TOWERS WATSON

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Purpose and actuarial statement

Purposes of valuation

American Electric Power retained Towers Watson Delaware 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, 2015 and American Electric Power's postretirement welfare cost for fiscal year ending December 31, 2015 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 Legislation

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:

- 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 and HHS have 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 to be reasonable. Other actuarial assumptions could also be considered to be reasonable. Thus, reasonable results differing from those presented in this report could have been developed by selecting different reasonable 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 (lower) benefit payments or lower (higher) investment returns than assumed, the relative level of plan costs or contribution requirements reported in this valuation will likely increase (decline) in future valuations. 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 above 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. 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. Towers Watson accepts no responsibility for any consequences arising from any other party relying on this report or any advice relating to its contents.

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 Delaware Inc.

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April 2015

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Section 1: Summary of key results

Benefit cost, assets & obligations

All monetary amounts shown in US Dollars

Fiscal Year Beginning		January 1, 2015	January 1, 2014
Benefit Cost/ (Income)	Net Periodic Postretirement Benefit Cost/(Income)	5,994,383	7,654,656
Measurement Date		**January 1, 2015**	**January 1, 2014**
Plan Assets	Fair Value of Assets (FVA)	21,650,436	20,657,767
Benefit Obligations	Accumulated Postretirement Benefit Obligation (APBO)	103,759,802	109,233,994
Funded Status	Funded Status	(82,109,366)	(88,576,227)
Accumulated Other Comprehensive (Income)/Loss	Net Transition Obligation/(Asset)	0	0
	Net Prior Service Cost/(Credit)	0	0
	Net Loss/(Gain)	38,894,895	48,934,150
	Total Accumulated Other Comprehensive (Income)/Loss	38,894,895	48,934,150
Assumptions[1]	Discount Rate	4.00%	4.70%
	Expected Long-term Return on Plan Assets	6.75%	6.75%
	Current Health Care Cost Trend Rate	6.25%	6.50%
	Ultimate Health Care Cost Trend Rate	5.00%	5.00%
	Year of Ultimate Trend Rate	2020	2020
Participant Data	Census Date	January 1, 2015	January 1, 2014
Plan reporting (ASC 965) for Plan Year Beginning		**January 1, 2015**	**January 1, 2014**
	Present value of accumulated benefits	110,736,018	109,233,994
	Market value of assets	21,650,436	20,657,767
	Plan reporting discount rate	4.00%	4.70%
Employer Contributions (net of Medicare subsidy)		**Plan Year 2015**	**Plan Year 2014**
Cash Flow	Expected benefit payments and expenses net of participant contributions (excluding Cook Coal) and cash contributions (Cook Coal only)	6,371,408	6,791,717

Employer Contributions

Employer contributions are the amounts paid by American Electric Power to provide for postretirement benefits, net of participant contributions and Medicare subsidy for non-Cook Coal locations plus the Net Periodic Benefit Cost for Cook Coal.

American Electric Power's funding policy for non-Cook Coal locations is to pay claims costs for the year and administrative expenses, less participant contributions and any Medicare Part D subsidy (RDS) received. For Cook Coal, the funding policy is to contribute an amount equal to the postretirement welfare cost plus retiree drug subsidy payments received (the sum of which can be no

[1] Rates are expressed on an annual basis where applicable.

less than zero). We understand the sponsor may deviate from this policy, as permitted by its terms, based on cash, tax or other considerations.

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 2015 postretirement welfare benefit cost for the plan is $5,994,383. 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, 2015, was $(82,109,366), based on the fair value of plan assets of $21,650,436 and the APBO of $103,759,802.

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, 2014, was derived from a roll forward of the January 1, 2014 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, 2015 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 $7,654,656 in fiscal 2014 to $5,994,383 in fiscal 2015, as set forth below:

All monetary amounts shown in US Dollars

($ in millions)	Postretirement welfare cost
Prior year	7.7
Change due to:	
► Expected based on prior valuation and contributions during prior year	(0.1)
► Unexpected noninvestment experience	(2.2)
► Unexpected investment experience	0.1
► Assumption changes	0.5
► Changes in substantive plan	0
Current year	6.0

Significant reasons for these changes include the following:

- The mortality table was changed to reflect future expectations, which increased the postretirement welfare cost.
- The discount rate decreased by 70 basis points compared to the prior year which increased the postretirement welfare cost.

- Claims experience was favorable (lower than expected) which was reflected in lower per capita claims cost assumptions and decreased the postretirement welfare cost.
- Demographic experience was favorable, which decreased 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 2015 valuation: discount rate, per capita claims costs, excise tax, 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 monetary amounts shown in US Dollars

Measurement Date		January 1, 2015	January 1, 2014
A	**Development of Balance Sheet Asset/(Liability)[1]**		
1	Accumulated postretirement benefit obligation (APBO)	103,759,802	109,233,994
2	Fair value of assets (FVA)	21,650,436	20,657,767
3	Net balance sheet asset/(liability)	(82,109,366)	(88,576,227)
B	**Current and Noncurrent Allocation**		
1	Noncurrent assets	0	0
2	Current liabilities	(3,645,111)	(3,804,252)
3	Noncurrent liabilities	(78,464,255)	(84,771,975)
4	Net balance sheet asset/(liability)	(82,109,366)	(88,576,227)
C	**Accumulated Other Comprehensive (Income)/Loss**		
1	Net transition obligation/(asset)	0	0
2	Net prior service cost/(credit)	0	0
3	Net loss/(gain)	38,894,895	48,934,150
4	Accumulated other comprehensive (income)/loss[2]	38,894,895	48,934,150
D	**Assumptions and Dates[3]**		
1	Discount rate	4.00%	4.70%
2	Current health care cost trend rate	6.25%	6.50%
3	Ultimate health care cost trend rate	5.00%	5.00%
4	Year of ultimate trend rate	2020	2020
5	Census date	January 1, 2015	January 1, 2014

1 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.
2 Amount shown is pre-tax and should be adjusted by plan sponsor for tax effects.
3 Rates are expressed on an annual basis where applicable.

2.2 Summary and comparison of postretirement benefit cost and cash flows

All monetary amounts shown in US Dollars

Fiscal Year Ending		December 31, 2015	December 31, 2014
A	**Total Postretirement Benefit Cost**		
1	Employer service cost	1,422,380	1,250,013
2	Interest cost	4,105,994	5,085,843
3	Expected return on assets	(1,503,121)	(1,467,095)
4	Subtotal	(4,025,253)	4,868,761
5	Transition obligation/(asset) amortization	0	0
6	Net prior service cost/(credit) amortization	0	0
7	Net loss/(gain) amortization	1,969,130	2,785,895
8	Amortization subtotal	1,969,130	2,785,895
9	Net periodic postretirement benefit cost/(income)	5,994,383	7,654,656
B	**Assumptions**[1]		
1	Discount rate	4.00%	4.70%
2	Current health care cost trend rate	6.25%	6.50%
3	Ultimate health care cost trend rate	5.00%	5.00%
4	Year ultimate trend rate is expected	2020	2020
C	**Census Date**	January 1, 2015	January 1, 2014
D	**Assets at Beginning of Year**		
1	Fair market value	0	0
E	**Cash Flow**	**Expected**	**Actual**
1	Employer contributions[2]	6,371,408	4,309,271
2	Plan participants' contributions	0	0
3	Benefits paid by the Employer[3]	3,933,416	4,309,902
4	Benefits paid from plan assets[3]	1,469,724	52,639
5	Expected Medicare subsidy	(288,305)	(269,270)

1 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 Reflects benefit payments and expenses (non-Cook Coal), as well as contributions to plan trust (Cook Coal), net of RDS.

3 Amounts shown are prior to offset for Medicare subsidy.

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.

All monetary amounts shown in US Dollars

		Book Basis Net of Part D Subsidy	Tax Basis Net of Part D Subsidy after 2012
A	**Postretirement Welfare Cost**		
1	Fiscal 2015	5,994,383	5,725,367
2	Fiscal 2014	7,654,656	7,325,217
B	**Funded Position**		
1	Overfunded (underfunded) APBO	(82,109,366)	(82,109,366)

2.4 Detailed results for postretirement welfare cost and funded position

All monetary amounts shown in US Dollars

Detailed results			January 1, 2015	January 1, 2014
A	**Service Cost**			
	1	Medical	1,422,380	1,250,013
B	**Accumulated Postretirement Benefit Obligation [APBO]**			
	1	Medical[1]:		
		a Participants currently receiving benefits	76,702,033	81,564,174
		b Fully eligible active participants	11,724,650	14,428,235
		c Other participants	15,333,119	13,241,585
		d Total	103,759,802	109,233,994
C	**Assets**			
	1	Fair value [FV]	21,650,436	20,657,767
D	**Funded Position**			
	1	Overfunded (underfunded) APBO	(82,109,366)	(88,576,227)
E	**Amounts in Accumulated Other Comprehensive Income**			
	1	Transition obligation/(asset)	0	0
	2	Net prior service cost/(credit)	0	0
	3	Net loss/(gain)	38,894,895	48,934,150
	4	Total	38,894,895	48,934,150
F	**Effect of Change in Health Care Cost Trend Rate**			
	1	One-percentage-point increase:		
		a Sum of service cost and interest cost	1,281,243	1,400,417
		b APBO	17,621,148	18,832,137
	2	One-percentage-point decrease:		
		a Sum of service cost and interest cost	(954,707)	(1,052,914)
		b APBO	(13,849,681)	(14,819,206)

[1] 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

All monetary amounts shown in US Dollars

			January 1, 2015	January 1, 2014
A	**Medical**			
	1	Gross disbursements	5,403,140	4,910,204
	2	Participant contributions	0	0
	3	Net disbursements	5,403,140	4,910,204
B	**RDS**			
	1	Gross disbursements	(288,305)	(308,192)
	2	Participant contributions	0	0
	3	Net disbursements	(288,305)	(308,192)
C	**Total**			
	1	Gross disbursements	5,114,835	4,602,012
	2	Participant contributions	0	0
	3	Net disbursements	5,114,835	4,602,012

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Section 3: Data exhibits

3.1 Plan participant data

All monetary amounts shown in US Dollars

Census Date	January 1, 2015	January 1, 2014
A Participating Employees		
1 Number		
a Fully eligible	17	22
b Other	31	34
c Total participating employees	48	56
2 Average age	46.3	46.6
3 Average credited service	18.3	19.5
4 Average future working life		
a to expected retirement age	14.5	14.1
b to full eligibility age	8.2	8.7
B Retirees and Surviving Spouses		
1 Retirees and surviving spouses		
a Number under 65	51	53
b Number 65 and older	246	245
c Total	297	298
d Number with married/family health care coverage	121	118
e Number with single health care coverage	176	180
f Average age	76.9	76.4
g Age Distribution at January 1, 2015		

Age	Number
Under 55	2
55-59	18
60-64	31
65-69	43
70-74	29
75-79	35
80-84	52
85 and over	87

C	**Dependents**		
1	Number	121	118
2	Average age	68.9	68.6
3	Age Distribution at January 1, 2015		

Age	Number
Under 55	7
55-59	18
60-64	21
65-69	24
70-74	18
75-79	13
80-84	8
85 and over	12

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 Age	0-4	5-9	10-14	15-19	20-24	25-29	30-34	Over 34	Total
Under 25									
25-29		2							2
30-34		6							6
35-39		5	1	3					9
40-44		1	1	1					3
45-49		3	1	2	2				8
50-54		2	1	2					5
55-59			1	1		1		6	9
60-64						1		5	6
65-69									
70 & over									
Total	0	19	5	9	2	2	0	11	48 [1]

Average:	Age:	46.3	Number of Participants:	Fully eligible	17	Males	48
	Service	18.3		Other	31	Females	0

Census data as of January 1, 2015

[1] 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		4.00 %
Medical cost trend rate	2015	6.25
	2016	6.00
	2017	5.75
	2018	5.50
	2019	5.25
	2020+	5.00

Demographic Assumptions

Mortality

Based on modified versions of RP-2014 with long-term improvement rates of 0.75%.

Base mortality rates are derived from the RP-2014 mortality table with improvements factored to 2006 with blue collar adjustment.

Mortality improvements are projected forward on a generational basis. Improvement rates grade linearly from the MP-2014 rate in 2007 to the ultimate rate in 2015:

Age	Ultimate Improvement rate per year	Age	Ultimate improvement rate per year
85 and younger	0.750%	91	0.300%
86	0.675%	92	0.225%
87	0.600%	93	0.150%
88	0.525%	94	0.075%
89	0.450%	95 and older	0.000%
90	0.375%		

Lump sum/annuity conversion

Applicable 417(e) IRS Mortality Table

Disability

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

Age	Rate
20	0.120%
30	0.120
40	0.147
50	0.357
60	1.380

Termination

Rates vary by age as indicated by the following sample values

Age	Rate
20	10.70%
30	5.9
40	2.1
≥45	0

Retirement

Rates vary by age as indicated by the following values:

Age	Rate	Age	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%

2015 Per Capita Claims Costs

Basis for Per Capita Claim Cost Assumptions

	Age	Medicare Part D RDS Subsidy	Post-1993 retirees	Pre-1994 retirees
► Overall average	< 65	N/A	18,195	18,953
	>=65	(912)	9,778	9,778
► By age group	< 35	N/A	7,484	7,796
	35-49	N/A	8,261	8,606
	40-44	N/A	9,401	9,792
	45-49	N/A	11,473	11,951
	50-54	N/A	13,623	14,190
	55-59	N/A	15,202	15,835
	60-64	N/A	20,718	21,581
	65-69	(819)	8,166	8,166
	70-74	(926)	9,422	9,422
	75-79	(958)	10,059	10,059
	80-84	(950)	10,367	10,367
	85-89	(942)	10,654	10,654
	90-94	(860)	10,129	10,129
	>= 95	(696)	8,788	8,788

Administrative expenses: $482 per primary participant in 2015, increasing 3.5% per year.

Excise tax payments as a percentage of per capita claims costs for sample years

Year	% Load
2018	8.2%
2020	10.1%
2025	14.8%
2030	19.1%
2035	23.0%
2040	26.5%
2050	32.7%

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. 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 expected remaining service of active participants expected to benefit under the plan.
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 4.70% to 4.00%. 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, 2014. 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.

Assumptions Rationale - Significant Economic Assumptions

Per capita claims costs	AEP supplied data on retiree medical and prescription drug claim payments for the period October 2010 through September 2014. 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 2015 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 2015 medical and prescription drug rates.
Excise tax payments	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 value

We calibrated our modeling tool to reflect the 2015 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 reflecting utilization of 3.1 million Medicare-eligible members.

After the plan-specific benefit provisions have been calibrated to current costs, the Modeler trends costs forward to 2015. 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 (ignoring benefit enhancements from ACA) 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 (ignoring benefit enhancements from ACA) coverage in 2015 less the greater of $397.56 (the national average Part D premium) and 25.5% of the gross value of Part D coverage to the projected 2015 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 2015, using the continuance table calibrated to AEP's plan costs. This produced an average 2015 per person annual employer subsidy of $912.

Claims cost trend rates

Assumed increases were chosen by the plan sponsor and, as required by U.S. GAAP, they represent an estimate of future experience, informed by an analysis of recent plan experience, leading to select and ultimate assumed trend rates and reflecting the expected near-term effect of recently enacted plan changes. In setting near term trend rates, other pertinent statistics were considered, including surveys on general medical cost increases. In setting the ultimate trend rate, considerations included assumed GDP growth consistent with the assumed future economic conditions inherent in other economic assumptions chosen by the client at the measurement date.

After examining historical variability in trend rates, we believe that

	the selected assumptions do not significantly conflict with what would be reasonable based on a combination of market conditions at the measurement date and future expectations consistent with other economic assumptions used, other than the discount rate.
Medicare Part D subsidy trend rates	The assumed rates of increase in Medicare Part D subsidy are assumed to equal the plan's assumed trend rates.

Assumptions Rationale - Significant Demographic Assumptions

Healthy Mortality	Assumptions were selected by the plan sponsor and, as required by U.S. GAAP, represent a best estimate of future experience.
Disabled Mortality	Assumptions were selected by the plan sponsor and, as required by U.S. GAAP, represent a best estimate of future experience.
Termination	Termination rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by termination patterns different than assumed.
Disability	Disability rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by disability patterns different than assumed.
Retirement	Retirement rates are based on plan sponsor expectations for the future with periodic monitoring of observed gains and losses caused by retirement patterns different than assumed.
Participation	
• Participants/Spouses	The assumed coverage rates for participants and spouses reflect historical experience as well as anticipated future experience based on a 100% employer paid benefit.
• Covered dependents	The assumed dependent coverage is based on the dependent coverage observed among recent retirees and general population statistics on the marital status of individuals of retirement age.
• Covered Spouse age	The assumed age difference for spouses is based on the age difference observed among recent retirees and general population statistics of the age difference for married individuals of retirement age.

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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 in-network 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 2015 UMWA Postretirement Health Care Plan valuation report:

	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Discount Rate	4.00%	4.25%	4.50%	4.75%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%
Expected Return on Assets	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%	6.75%
Initial Medical Trend	6.25%	6.00%	5.75%	5.50%	5.25%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%

Mortality table	RP-2014, factored to 2006, blue collar, headcount weighted
Mortality projection scale	Rates grade linearly by year from MP-2014 in 2007 to 0.75% in 2015. Rates grade linearly by age to zero at age 95 from age 85.
Valuation and data	January 1, 2015
Per capita claims cost	2015 cost models based on actual claims experience paid through September 30, 2014

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
SUMMARY OF PLAN PARTICIPANTS FOR THE 2015 VALUATION

		Active Participants	Retirees*	Dependent Spouses	Surviving Spouses	Total
225	Cedar Coal Co.	0	99	69	132	300
270	Cook Coal Terminal	48	35	29	0	112
290	Conesville Coal Preparation Company	0	30	23	1	54
	Total	48	164	121	133	466

*includes disabled employees

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
2015 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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	43,364,816	2,963,482	0	0	1,675,904	0	0	822,968	2,498,872
	Appalachian Power Co. - SEC	**$43,364,816**	**$2,963,482**	**$0**	**$0**	**$1,675,904**	**$0**	**$0**	**$822,968**	**$2,498,872**
270	270 Cook Coal Terminal	47,123,672	1,469,724	21,650,436	1,422,380	1,912,736	(1,503,121)	0	894,302	2,726,297
	AEP Generating Company	**$47,123,672**	**$1,469,724**	**$21,650,436**	**$1,422,380**	**$1,912,736**	**($1,503,121)**	**$0**	**$894,302**	**$2,726,297**
290	290 Conesville Coal Preparation Company	13,271,314	681,628	0	0	517,354	0	0	251,860	769,214
	AEP Generation Resources - SEC	**$13,271,314**	**$681,628**	**$0**	**$0**	**$517,354**	**$0**	**$0**	**$251,860**	**$769,214**
	Total	**$103,759,802**	**$5,114,835**	**$21,650,436**	**$1,422,380**	**$4,105,994**	**($1,503,121)**	**$0**	**$1,969,130**	**$5,994,383**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
10-YEAR POSTRETIREMENT WELFARE COST FORECAST

			ASC 715-60 Cost ($000s)	Projected Net Periodic Postretirement Benefit Cost ($000s)									
			2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
	Location												
999	225	Cedar Coal Co.	2,499	2,300	2,112	1,931	1,759	1,658	1,560	1,467	1,378	1,291	1,207
		Appalachian Power Co. - SEC	**2,499**	**2,300**	**2,112**	**1,931**	**1,759**	**1,658**	**1,560**	**1,467**	**1,378**	**1,291**	**1,207**
270	270	Cook Coal Terminal	2,726	2,466	2,218	1,985	1,769	1,760	1,753	1,746	1,741	1,737	1,734
		AEP Generating Company	**2,726**	**2,466**	**2,218**	**1,985**	**1,769**	**1,760**	**1,753**	**1,746**	**1,741**	**1,737**	**1,734**
290	290	Conesville Coal Preparation Company	769	720	674	630	590	574	557	540	522	505	488
		AEP Generation Resources - SEC	**769**	**720**	**674**	**630**	**590**	**574**	**557**	**540**	**522**	**505**	**488**
		Total	**$5,994**	**$5,486**	**$5,004**	**$4,546**	**$4,118**	**$3,992**	**$3,870**	**$3,753**	**$3,641**	**$3,533**	**$3,429**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2016 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	Amortizations PSC	Amortizations (G)/L	Net Periodic Postretirement Benefit Cost
225	225 Cedar Coal Co.	40,491,129	2,934,069	0	0	1,659,173	0	0	640,728	2,299,901
	Appalachian Power Co. - SEC	**$40,491,129**	**$2,934,069**	**$0**	**$0**	**$1,659,173**	**$0**	**$0**	**$640,728**	**$2,299,901**
270	270 Cook Coal Terminal	47,142,413	1,023,398	24,410,130	1,375,342	2,040,484	(1,695,584)	0	745,978	2,466,220
	AEP Generating Company	**$47,142,413**	**$1,023,398**	**$24,410,130**	**$1,375,342**	**$2,040,484**	**($1,695,584)**	**$0**	**$745,978**	**$2,466,220**
290	290 Conesville Coal Preparation Company	12,612,968	721,184	0	0	520,885	0	0	199,587	720,472
	AEP Generation Resources - SEC	**$12,612,968**	**$721,184**	**$0**	**$0**	**$520,885**	**$0**	**$0**	**$199,587**	**$720,472**
	Total	**$100,246,510**	**$4,678,651**	**$24,410,130**	**$1,375,342**	**$4,220,542**	**($1,695,584)**	**$0**	**$1,586,293**	**$5,486,593**

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	Amortizations PSC	Amortizations (G)/L	Net Periodic Postretirement Benefit Cost
225	225 Cedar Coal Co.	37,737,971	2,913,799	0	0	1,633,370	0	0	478,152	2,111,522
	Appalachian Power Co. - SEC	**$37,737,971**	**$2,913,799**	**$0**	**$0**	**$1,633,370**	**$0**	**$0**	**$478,152**	**$2,111,522**
270	270 Cook Coal Terminal	47,667,617	1,139,436	27,548,536	1,329,860	2,179,531	(1,895,334)	0	603,964	2,218,021
	AEP Generating Company	**$47,667,617**	**$1,139,436**	**$27,548,536**	**$1,329,860**	**$2,179,531**	**($1,895,334)**	**$0**	**$603,964**	**$2,218,021**
290	290 Conesville Coal Preparation Company	11,944,771	683,110	0	0	522,314	0	0	151,344	673,658
	AEP Generation Resources - SEC	**$11,944,771**	**$683,110**	**$0**	**$0**	**$522,314**	**$0**	**$0**	**$151,344**	**$673,658**
	Total	**$97,350,359**	**$4,736,345**	**$27,548,536**	**$1,329,860**	**$4,335,215**	**($1,895,334)**	**$0**	**$1,233,460**	**$5,003,201**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2018 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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	35,083,269	3,130,851	0	0	1,592,960	0	0	338,192	1,931,152
	Appalachian Power Co. - SEC	**$35,083,269**	**$3,130,851**	**$0**	**$0**	**$1,592,960**	**$0**	**$0**	**$338,192**	**$1,931,152**
270	270 Cook Coal Terminal	48,151,398	1,300,749	30,522,455	1,285,882	2,317,736	(2,082,976)	0	464,165	1,984,807
	AEP Generating Company	**$48,151,398**	**$1,300,749**	**$30,522,455**	**$1,285,882**	**$2,317,736**	**($2,082,976)**	**$0**	**$464,165**	**$1,984,807**
290	290 Conesville Coal Preparation Company	11,339,776	751,551	0	0	520,997	0	0	109,312	630,309
	AEP Generation Resources - SEC	**$11,339,776**	**$751,551**	**$0**	**$0**	**$520,997**	**$0**	**$0**	**$109,312**	**$630,309**
	Total	**$94,574,443**	**$5,183,151**	**$30,522,455**	**$1,285,882**	**$4,431,693**	**($2,082,976)**	**$0**	**$911,669**	**$4,546,268**

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	Amortizations PSC	Amortizations (G)/L	Net Periodic Postretirement Benefit Cost
225	225 Cedar Coal Co.	32,280,880	3,020,636	0	0	1,539,449	0	0	219,469	1,758,918
	Appalachian Power Co. - SEC	**$32,280,880**	**$3,020,636**	**$0**	**$0**	**$1,539,449**	**$0**	**$0**	**$219,469**	**$1,758,918**
270	270 Cook Coal Terminal	48,552,385	1,410,666	33,289,489	1,243,358	2,454,951	(2,258,952)	0	330,094	1,769,451
	AEP Generating Company	**$48,552,385**	**$1,410,666**	**$33,289,489**	**$1,243,358**	**$2,454,951**	**($2,258,952)**	**$0**	**$330,094**	**$1,769,451**
290	290 Conesville Coal Preparation Company	10,690,458	689,821	0	0	517,488	0	0	72,681	590,169
	AEP Generation Resources - SEC	**$10,690,458**	**$689,821**	**$0**	**$0**	**$517,488**	**$0**	**$0**	**$72,681**	**$590,169**
	Total	**$91,523,723**	**$5,121,123**	**$33,289,489**	**$1,243,358**	**$4,511,888**	**($2,258,952)**	**$0**	**$622,244**	**$4,118,538**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2020 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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	30,799,693	2,996,615	0	0	1,465,983	0	0	192,136	1,658,119
	Appalachian Power Co. - SEC	**$30,799,693**	**$2,996,615**	**$0**	**$0**	**$1,465,983**	**$0**	**$0**	**$192,136**	**$1,658,119**
270	270 Cook Coal Terminal	50,840,028	1,448,050	35,907,226	1,305,526	2,571,518	(2,434,097)	0	317,152	1,760,099
	AEP Generating Company	**$50,840,028**	**$1,448,050**	**$35,907,226**	**$1,305,526**	**$2,571,518**	**($2,434,097)**	**$0**	**$317,152**	**$1,760,099**
290	290 Conesville Coal Preparation Company	10,518,125	722,472	0	0	508,065	0	0	65,615	573,680
	AEP Generation Resources - SEC	**$10,518,125**	**$722,472**	**$0**	**$0**	**$508,065**	**$0**	**$0**	**$65,615**	**$573,680**
	Total	**$92,157,846**	**$5,167,137**	**$35,907,226**	**$1,305,526**	**$4,545,566**	**($2,434,097)**	**$0**	**$574,903**	**$3,991,898**

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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	29,269,061	2,861,191	0	0	1,392,796	0	0	167,239	1,560,035
	Appalachian Power Co. - SEC	**$29,269,061**	**$2,861,191**	**$0**	**$0**	**$1,392,796**	**$0**	**$0**	**$167,239**	**$1,560,035**
270	270 Cook Coal Terminal	53,269,022	1,509,935	38,653,372	1,370,802	2,694,703	(2,617,163)	0	304,373	1,752,715
	AEP Generating Company	**$53,269,022**	**$1,509,935**	**$38,653,372**	**$1,370,802**	**$2,694,703**	**($2,617,163)**	**$0**	**$304,373**	**$1,752,715**
290	290 Conesville Coal Preparation Company	10,303,718	698,924	0	0	497,926	0	0	58,874	556,800
	AEP Generation Resources - SEC	**$10,303,718**	**$698,924**	**$0**	**$0**	**$497,926**	**$0**	**$0**	**$58,874**	**$556,800**
	Total	**$92,841,801**	**$5,070,050**	**$38,653,372**	**$1,370,802**	**$4,585,425**	**($2,617,163)**	**$0**	**$530,486**	**$3,869,550**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2022 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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	27,800,666	2,745,096	0	0	1,322,243	0	0	144,668	1,466,911
	Appalachian Power Co. - SEC	**$27,800,666**	**$2,745,096**	**$0**	**$0**	**$1,322,243**	**$0**	**$0**	**$144,668**	**$1,466,911**
270	270 Cook Coal Terminal	55,824,592	1,563,151	41,513,315	1,439,342	2,824,595	(2,808,226)	0	290,498	1,746,209
	AEP Generating Company	**$55,824,592**	**$1,563,151**	**$41,513,315**	**$1,439,342**	**$2,824,595**	**($2,808,226)**	**$0**	**$290,498**	**$1,746,209**
290	290 Conesville Coal Preparation Company	10,102,720	730,300	0	0	487,101	0	0	52,572	539,673
	AEP Generation Resources - SEC	**$10,102,720**	**$730,300**	**$0**	**$0**	**$487,101**	**$0**	**$0**	**$52,572**	**$539,673**
	Total	**$93,727,978**	**$5,038,547**	**$41,513,315**	**$1,439,342**	**$4,633,939**	**($2,808,226)**	**$0**	**$487,738**	**$3,752,793**

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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	26,377,813	2,662,459	0	0	1,253,141	0	0	124,402	1,377,543
	Appalachian Power Co. - SEC	**$26,377,813**	**$2,662,459**	**$0**	**$0**	**$1,253,141**	**$0**	**$0**	**$124,402**	**$1,377,543**
270	270 Cook Coal Terminal	58,525,378	1,623,902	44,504,599	1,511,309	2,961,732	(3,007,951)	0	276,016	1,741,106
	AEP Generating Company	**$58,525,378**	**$1,623,902**	**$44,504,599**	**$1,511,309**	**$2,961,732**	**($3,007,951)**	**$0**	**$276,016**	**$1,741,106**
290	290 Conesville Coal Preparation Company	9,859,521	711,085	0	0	475,416	0	0	46,499	521,915
	AEP Generation Resources - SEC	**$9,859,521**	**$711,085**	**$0**	**$0**	**$475,416**	**$0**	**$0**	**$46,499**	**$521,915**
	Total	**$94,762,712**	**$4,997,446**	**$44,504,599**	**$1,511,309**	**$4,690,289**	**($3,007,951)**	**$0**	**$446,917**	**$3,640,564**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2024 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	Amortizations PSC	Amortizations (G)/L	Net Periodic Postretirement Benefit Cost
225	225 Cedar Coal Co.	24,968,495	2,564,657	0	0	1,185,090	0	0	106,086	1,291,176
	Appalachian Power Co. - SEC	**$24,968,495**	**$2,564,657**	**$0**	**$0**	**$1,185,090**	**$0**	**$0**	**$106,086**	**$1,291,176**
270	270 Cook Coal Terminal	61,374,517	1,665,826	47,629,754	1,586,874	3,106,932	(3,217,378)	0	260,768	1,737,196
	AEP Generating Company	**$61,374,517**	**$1,665,826**	**$47,629,754**	**$1,586,874**	**$3,106,932**	**($3,217,378)**	**$0**	**$260,768**	**$1,737,196**
290	290 Conesville Coal Preparation Company	9,623,852	691,587	0	0	464,114	0	0	40,890	505,004
	AEP Generation Resources - SEC	**$9,623,852**	**$691,587**	**$0**	**$0**	**$464,114**	**$0**	**$0**	**$40,890**	**$505,004**
	Total	**$95,966,864**	**$4,922,070**	**$47,629,754**	**$1,586,874**	**$4,756,136**	**($3,217,378)**	**$0**	**$407,744**	**$3,533,376**

AMERICAN ELECTRIC POWER
UMWA POSTRETIREMENT WELFARE PLAN
ESTIMATED 2025 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*	*Amortizations*		*Net Periodic Postretirement Benefit Cost*
								PSC	*(G)/L*	
225	225 Cedar Coal Co.	23,588,928	2,506,360	0	0	1,117,552	0	0	89,567	1,207,119
	Appalachian Power Co. - SEC	**$23,588,928**	**$2,506,360**	**$0**	**$0**	**$1,117,552**	**$0**	**$0**	**$89,567**	**$1,207,119**
270	270 Cook Coal Terminal	64,402,497	1,741,464	50,918,502	1,666,218	3,260,429	(3,436,765)	0	244,536	1,734,418
	AEP Generating Company	**$64,402,497**	**$1,741,464**	**$50,918,502**	**$1,666,218**	**$3,260,429**	**($3,436,765)**	**$0**	**$244,536**	**$1,734,418**
290	290 Conesville Coal Preparation Company	9,396,379	707,310	0	0	452,352	0	0	35,678	488,030
	AEP Generation Resources - SEC	**$9,396,379**	**$707,310**	**$0**	**$0**	**$452,352**	**$0**	**$0**	**$35,678**	**$488,030**
	Total	**$97,387,804**	**$4,955,134**	**$50,918,502**	**$1,666,218**	**$4,830,333**	**($3,436,765)**	**$0**	**$369,781**	**$3,429,567**