

American Electric Power

American Electric Power System Retirement Plan

Actuarial Valuation Report
Employer Contributions for Plan Year
Beginning January 1, 2015

Benefit Cost for Fiscal Year Beginning
January 1, 2015 under US GAAP

April 2015

TOWERS WATSON The logo for Towers Watson, featuring the company name in a bold, black, sans-serif font followed by a stylized, red, handwritten-style 'w' symbol.

Table of Contents

Purposes of valuation 1

Section 1: Summary of results.....3

Summary of valuation results.....3

Minimum required contribution and funding policy.....4

Change in minimum funding requirement and funding shortfall (funding surplus).....5

Funding ratios.....6

Benefit limitations7

PBGC reporting requirements.....7

At-Risk status for determining minimum required contributions.....8

Pension cost and funded position8

Change in pension cost and funded position9

Basis for valuation 10

Actuarial certification.....11

Section 2: Actuarial exhibits15

 2.1 *Summary of liabilities for minimum funding purposes* 15

 2.2 *Change in plan assets during plan year* 16

 2.3 *Development of actuarial value of assets* 17

 2.4 *Calculation of minimum required contribution*..... 18

 2.5 *Schedule of minimum funding amortization bases* 19

 2.6 *Calculation of estimated maximum deductible contribution*.....20

 2.7 *ASC 960 (plan accounting) information*22

 2.8 *Pension obligations and funded position under U.S. GAAP (ASC 715)*.....24

 2.9 *Pension cost under U.S. GAAP (ASC 715)*25

 2.10 *Development of market-related value of assets under U.S. GAAP (ASC 715)*26

 2.11 *Summary of net prior service cost/(credit) balances*.....27

Section 3: Participant data29

 3.1 *Summary of plan participants*29

 3.2 *Participant reconciliation*31

 3.3 *Age and service distribution of participating employees*.....32

Appendix A: Statement of actuarial assumptions and methods.....35

Appendix B1: Summary of plan provisions covered by the former East Retirement Plan47

Appendix B2: Summary of plan provisions covered by the former West Retirement Plan53

Appendix C: Adjusted Funding Target Attainment Percentage (AFTAP).....59

Appendix D: Results by business unit.....63

Appendix E: Descriptions of Funded Status Measures78

This page is intentionally blank

Purposes of valuation

American Electric Power (the Company) retained Towers Watson Delaware Inc. ("Towers Watson"), to perform an actuarial valuation of the American Electric Power System Retirement Plan for the purpose of determining the following:

1. The minimum required contribution in accordance with ERISA and the Internal Revenue Code (IRC) for the plan year beginning January 1, 2015.
2. The estimated maximum tax-deductible contribution for the tax year in which the 2015 plan year ends in accordance with ERISA as allowed by the IRC. The maximum tax-deductible contribution should be finalized in consultation with the Company's tax advisor.
3. Plan accounting information in accordance with FASB Accounting Standards Codification Topic 960 (ASC 960).
4. Determination of the Funding Target Attainment Percentage (FTAP) under IRC §430(d)(2), as reported in the Annual Funding Notice required under ERISA 101(f).
5. The value of benefit obligations as of January 1, 2015 and American Electric Power's pension cost for fiscal year ending December 31, 2015 in accordance with FASB Accounting Standards Codification Topic 715 (ASC 715-30).
6. As requested by American Electric Power, a "specific certification" of the Adjusted Funding Target Attainment Percentage (AFTAP) for the American Electric Power System Retirement Plan under IRC §436 for the plan year beginning January 1, 2015. Please see Appendix C for additional information. Note that the AFTAP certification included herein may be superseded by a subsequent AFTAP certification for the American Electric Power System Retirement Plan for the plan year beginning January 1, 2015.

Limitations

This valuation has been conducted for the purposes described above and may not be suitable for any other purpose. In particular, please note the following:

1. This report does not determine the plan's liquidity shortfall requirements (if any) under IRC §430(j)(4). If applicable, we will determine such requirements separately as requested by the Company.
2. This report does not determine liabilities on a plan termination basis, for which a separate extensive analysis would be required. No funded status measure included in this report is intended to assess, and none may be appropriate for assessing, the sufficiency of plan assets to cover the estimated cost of settling the plan's benefit obligations, as all such measures differ in some way from plan termination obligations. For example, measures shown in this report may reflect smoothed assets or interest rates, rather than current values, in accordance with funding and accounting rules. In addition, funded status measures shown in this report do not reflect the current costs of settling the plan obligations by offering immediate lump sum payments to participants and/or purchasing annuity contracts for the remaining participants (e.g., insurer profit, insurer pricing of contingent benefits and/or provision for anti-selection in the choice of a lump sum vs. an annuity).

2

3. The cost method for the minimum required contribution is established under IRC §430 and may not in all circumstances produce adequate assets to pay benefits under all optional forms of payment available under the plan when benefit payments are due.
4. The comparison of the plan's funding target to its actuarial value of assets (the funding shortfall (surplus) shown in Section 1) is used in determining required contributions for the coming year, and a contribution made on the valuation date equal to the shortfall would be considered to "fully fund" the plan for benefits accrued as of the valuation date under the funding rules, and thus is useful for assessing the need for and amount of future contributions. However, the funding shortfall (surplus) cannot be relied upon to determine either the need for or the amount of future contributions. The funding shortfall (surplus) is based on the interest rates elected to be used for funding purposes, which may be smoothed rates not reflecting current market conditions and will in any event change over time. It is also based on the actuarial value of assets – a smoothed value – and would be different if based on market value of assets. In addition, asset gains and losses, demographic experience different from assumed, and future benefit accruals will all affect the need for and amount of future contributions.
5. There may be certain events that occurred since the valuation date that are not reflected in this valuation. See Subsequent Events (under the "Basis for valuation" portion of Section 1 below) for more information.
6. This valuation reflects our understanding of the relevant provisions of the Pension Protection Act of 2006 (PPA); the Worker, Retiree and Employer Recovery Act of 2008 (WRERA); the Preservation of Access to Care for Medicare Beneficiaries and Pension Relief Act of 2010 (PRA), the Moving Ahead for Progress in the 21st Century Act (MAP-21) and the Highway and Transportation Funding Act of 2014 (HATFA). The IRS has yet to issue final guidance with respect to certain aspects of these laws. It is possible that future guidance may conflict with our understanding of these laws based on currently available guidance and could therefore affect results shown in this report.

Section 1: Summary of results

Summary of valuation results

All monetary amounts shown in US Dollars

Plan Year Beginning	01/01/2015	01/01/2014
Funding		
Market value of assets with discounted receivable contributions	4,975,864,249	4,795,450,954
Actuarial value of assets	5,126,953,429	4,722,776,047
Funding balances	728,778,301	660,963,451
Funding target	3,941,682,464	3,964,673,907
Target normal cost	76,942,794	65,180,624
Funding shortfall (surplus)	(456,492,664)	(97,138,689)
Funding target attainment percentage (FTAP)	111.58%	102.45%
Minimum required contribution		
Prior to application of funding balances	0	0
Net of available funding balances	0	0
Effective interest rate	6.15%	6.34%
U.S. GAAP Accounting (ASC 715) as of Measurement Date		
Projected benefit obligation (PBO)	5,121,214,558	4,741,966,540
Fair value of assets (without receivable contributions)	4,975,864,249	4,726,059,114
Funded status	(145,350,309)	(15,907,426)
Total Benefit Cost/(Income)	126,471,542	151,433,518
Discount rate	4.00%	4.70%
Participants as of Census Date		
Active employees	17,737	17,684
Participants with deferred benefits	3,634	3,642
Participants receiving benefits	15,722	16,041
Total	37,093	37,367
Plan Accounting (ASC 960)		
Present value of accumulated benefits	4,063,252,469	4,105,351,485
Market value of assets with receivable contributions	4,975,864,249	4,797,523,114
Plan accounting discount rate	6.00%	6.00%

Minimum required contribution and funding policy

All monetary amounts shown in US Dollars

Plan Year Beginning	01/01/2015	01/01/2014
Minimum Required Contribution (MRC)		
Prior to application of funding balances	0	0
Net of available funding balances	0	0
Sponsor's Funding Policy Contribution	92,515,000	71,464,000

The minimum required contribution for the 2015 plan year must be partially satisfied in quarterly installments during the plan year, with a final payment due by September 15, 2016. These requirements may be satisfied through contributions and/or an election to apply the available funding balances. The minimum required contribution is determined assuming it is paid as of the valuation date for the plan year. Contributions made on a date other than the valuation date must be adjusted for interest at the plan's effective interest rate. The minimum funding schedule, before reflecting any funding balance elections or amounts already contributed for the 2015 plan year prior to the issuance of this report, is shown below:

All monetary amounts shown in US Dollars

Due Date	Amount
April 15, 2015	0
July 15, 2015	0
October 15, 2015	0
January 15, 2016	0
September 15, 2016	0

If a plan has a funding shortfall for the current plan year, quarterly contributions will be required for the following plan year.

Because the plan does not have a funding shortfall, no quarterly contributions will be required for the 2016 plan year based on this year's valuation results.

Change in minimum funding requirement and funding shortfall (funding surplus)

The minimum funding requirement is unchanged from \$0 for the 2014 plan year to \$0 for the 2015 plan year, and the funding shortfall (surplus) declined from \$(97,138,689) on January 1, 2014 to \$(456,492,664) on January 1, 2015, as set forth below:

All monetary amounts shown in US Dollars

(\$ in millions)	Minimum Funding Requirement	Funding Shortfall (Surplus)
Prior year	0	(97.1)
Change due to:		
Expected based on prior valuation, contributions, and use of/creation of funding balances	0	(2.0)
Sponsor election to reduce funding balances	0	0
Unexpected noninvestment experience	49.3	66.8
Unexpected investment experience	(49.3)	(389.9)
Assumption changes	0	(34.3)
Method changes	0	0
Unpredictable contingent events	0	0
Becoming at-risk	0	0
Plan amendments	0	0
Current year	0	(456.5)

Significant reasons for these changes include the following:

- The plan's effective interest rate decreased 19 basis points compared to the prior year, which increased the minimum funding requirement and caused the funding surplus to deteriorate.
- Investment experience was more favorable than expected which increased the funding surplus.
- Demographic experience was less favorable than expected which caused the funding surplus to deteriorate.

Funding ratios

The Pension Protection Act of 2006 (PPA) defines several Funding Ratios. All of these ratios are based on a ratio of plan assets to plan liabilities, but the assets and liabilities are defined differently for different purposes. Depending on the purpose, the assets may be market value or, if different, a smoothed actuarial value of assets, and may be reduced by the prefunding balance or all funding balances. The liabilities may be based on the funding target, funding target disregarding at-risk assumptions, or the funding target calculated using at-risk assumptions (see the At-Risk status section below), and may or may not reflect the HATFA interest rate corridors.

Following are the key funding ratios and their implications for the 2015 or 2016 plan years. See Appendix D for details on how each ratio is calculated.

January 1, 2014 Funding ratios

Ratio Test Implications	Threshold	Ratio Value
1 Funding balances can be used to satisfy the 2015 Minimum Required Contribution (MRC) if threshold met	80%	106.11%
2 Quarterly contribution exemption applies in 2015 if threshold met	100%	102.45%
3 Plan is not at-risk for 2015 if the threshold for either the Prong 1 or Prong 2 test is met		
- Prong 1 Test	80%	102.45%
- Prong 2 Test	70%	N/A

January 1, 2015 Funding ratios

Ratio Test Implications	Threshold	Ratio Value
1 Funding balances can be used to satisfy the 2016 MRC if threshold met	80%	115.64%
2 Quarterly contribution exemption applies in 2016 if threshold met	100%	111.58%
3 Plan is not at-risk for 2016 if the threshold for either the Prong 1 or Prong 2 test is met		
- Prong 1 Test	80%	111.58%
- Prong 2 Test	70%	N/A
4 PBGC 4010 filing may be required in 2016 if threshold is not met by every plan in the controlled group	80%	91.96%
5 Plan is exempt from creating a new Shortfall Amortization Base (SAB) for 2015 when prefunding balance <u>is</u> applied to the 2015 MRC if threshold met	100%	115.64%
6 Plan is exempt from creating a new SAB for 2015 when prefunding balance <u>is not</u> applied to the 2015 MRC if threshold met	100%	130.07%
7 Previously established SABs are eliminated for 2015 if threshold met	100%	111.58%

Benefit limitations

The Adjusted Funding Target Attainment Percentage (AFTAP) for the plan year beginning January 1, 2015 is 130.07%. This AFTAP may be changed by subsequent events.

As requested by American Electric Power in your letter dated April 22, 2015, this report is intended to constitute a "specific certification" of the AFTAP, effective as of April 30, 2015, for the plan year beginning January 1, 2015 for the purpose of determining benefit restrictions under IRC §436 for the American Electric Power System Retirement Plan. This AFTAP certification is based on the data, methods, assumptions, plan provisions, annuity purchase information, and other information provided in this report. Please see the Appendices for additional information. Note that the AFTAP certification provided herein may be superseded by a subsequent AFTAP certification for the plan year beginning January 1, 2015. Please see Appendix C for a discussion of the implications of this certified AFTAP.

The AFTAP certification does not reflect the following events that have occurred since the valuation date. Under the PPA, a plan may become subject to various benefit limitations if its AFTAP falls below certain thresholds.

If the AFTAP is below 60%, plans are prohibited from paying lump sums or other accelerated forms of distribution. If the AFTAP is at least 60% but less than 80%, the amounts that can be paid are limited. In addition, lump sums to the 25 highest paid employees may be restricted if a plan's AFTAP is below 110%. These limitations do not apply to mandatory lump sum cash-outs of \$5,000 or less. In addition, plans that were completely frozen before September 2005 are exempt from the restrictions on lump sums and other accelerated forms of distribution.

If the AFTAP is below 60%, benefit accruals must cease, amendments to improve benefits cannot take effect, and plant shutdown benefits and other Unpredictable Contingent Event Benefits (UCEBs) cannot be paid without being fully paid for. In addition, if the AFTAP would be below 80% reflecting a proposed amendment, the plan amendment cannot take effect unless actions are taken to increase plan assets.

To avoid these benefit limitations, a plan sponsor may take a variety of steps, including reducing the funding balances, contributing additional amounts to the plan for the prior plan year, contributing special "designated IRC §436 contributions" for the current plan year, or providing security outside the plan. Not all of these approaches are available for all of the restrictions discussed above. For example, restrictions on accelerated distributions cannot be avoided by making designated IRC §436 contributions.

PBGC reporting requirements

Certain financial and actuarial information (i.e., a "4010 filing") must be provided to the PBGC if the PBGC Funding Target Attainment Percentage (PBGC FTAP) is less than 80% for any plan in the contributing sponsor's controlled group. However, this reporting requirement may be waived for controlled groups with no more than \$15 million in aggregate funding shortfall (PBGC 4010 FS). Note that the segment interest rate corridors of HATFA do not apply for purposes of determining the PBGC FTAP, but we believe they do apply (assuming segment rates are used for funding purposes) for the purpose of determining the PBGC 4010 FS (to be confirmed by plan counsel).

The 2015 FTAP is 91.96%. In addition, we understand that all other pension plans within the Company's controlled group also have PBGC FTAPs of at least 80%. As a result, no 4010 filing is expected to be required for 2015 as a result of the plans' funded status. However, a filing may also be required if there are outstanding funding waivers or missed contributions within the controlled group.

At-Risk status for determining minimum required contributions

As defined in the PPA, the plan is not in at-risk status for the 2015 plan year, because the plan's FTAP for the 2014 plan year was at least 80%, and/or the plan's FTAP measured using "at-risk assumptions" was at least 70%.

As defined in the PPA, the plan will not be in at-risk status for the 2016 plan year, because the plan's FTAP for the 2015 plan year is at least 80%, and/or the plan's FTAP measured using "at-risk assumptions" is at least 70%.

Pension cost and funded position

The cost of the pension plan is determined in accordance with ASC 715. The fiscal 2015 pension cost for the plan is \$126,471,542.

Under ASC 715, the funded position (fair value of plan assets less the projected benefit obligation, or "PBO") of each pension plan at the plan sponsor's fiscal year-end (measurement date) is required to be reported as an asset (for overfunded plans) or a liability (for underfunded plans). The PBO 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) PBO as of January 1, 2015 was \$(145,350,309), based on the fair value of plan assets of \$4,975,864,249 and the PBO of \$5,121,214,558.

Fiscal year-end financial reporting information and disclosures are prepared before detailed participant data and full valuation results are available. Therefore, the funded position at December 31, 2014 was derived from a roll forward of the January 1, 2014 valuation results, adjusted for the year-end discount rate, changes in other key assumptions and asset values, as well as significant changes in plan provisions and participant population. The fiscal year-end December 31, 2015 financial reporting information will be developed based on the results of the January 1, 2015 valuation, projected to the end of 2015 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 pension cost and funded position

The pension cost decreased from \$151,433,518 in fiscal 2014 to \$126,471,542 in fiscal 2015 and the funded position declined from \$(15,907,426) to \$(145,350,309), as set forth below:

All monetary amounts shown in US Dollars

(\$ in millions)	Net Periodic Cost	Funded Position
Prior year	151.4	(15.9)
Change due to:		
▶ Expected based on prior valuation and contributions during prior year	(28.9)	(16.2)
▶ Unexpected noninvestment experience	9.8	(9.2)
▶ Unexpected investment experience	(38.4)	300.2
▶ Assumption changes	32.6	(404.2)
▶ Plan amendments	0	0
▶ Settlements, curtailments, termination benefits	0	0
▶ Acquisitions	0	0
▶ Method change	0	0
Current year	126.5	(145.3)

Significant reasons for these changes include the following:

- The return on the fair value of plan assets since the prior measurement date was greater than expected, which decreased the pension cost and improved the funded position.
- The discount rate declined 70 basis points compared to the prior year, which increased the pension cost and decreased the funded position.
- Demographic experience was less favorable than expected which increased the pension cost and decreased the funded position.
- An experience study was conducted in 2014, resulting in changes to the termination and retirement assumptions, which decreased the pension cost and improved the funded position.
- The mortality assumption was updated to be based on versions of RP-2014 with long-term mortality improvement rates of 0.75%.

Basis for valuation

Appendix A summarizes the assumptions and methods used in the valuation. Appendix B summarizes the principal provisions of the plan being valued. Unless otherwise described below under Subsequent Events, assumptions were selected based on information known as of the measurement date.

Changes in Assumptions

The discount rate decreased from 4.70% to 4.00%.

The mortality table used to value the benefit obligations was updated from the RP2000 with projections to 2021 for annuitants and to 2029 for nonannuitants to modified versions of RP-2014 with long-term mortality improvement rates of 0.75%.

The salary increase rate was updated to reflect experience through 2013.

Retirement rates were updated to reflect experience through 2013.

Termination rates were updated to reflect experience through 2013.

The mortality used to convert to 417(e) based forms of payment was updated for an additional year of mortality improvements.

Changes in Methods

None.

Changes in Benefits Valued

None.

Actuarial certification

This valuation has been conducted in accordance with generally accepted actuarial principles and practices. However please note the information discussed below regarding this valuation.

Reliances

In preparing the results presented in this report, we have relied upon information regarding plan provisions, participants, assets and sponsor elections 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. In addition, the results in this report are dependent on contributions reported for the prior plan year and maintenance of funding balance elections after the valuation date. We have relied on all the information provided as complete and accurate. The results presented in this report are directly dependent upon the accuracy and completeness of the underlying data and information. Any material inaccuracy in the data, assets, plan provisions or information regarding contributions or funding balance elections 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.

Assumptions and methods under ERISA and the Internal Revenue Code for funding purposes

The plan sponsor selected, as prescribed by regulation, key assumptions and funding methods (including asset valuation method and choice among prescribed interest rates) employed in the development of the contribution amounts and communicated them to us in the letter dated April 22, 2015. To the extent not prescribed by ERISA, the Internal Revenue Code and regulatory guidance from the Treasury and the IRS, or selected by the sponsor, the actuarial assumptions and methods employed in the development of the contribution amounts have been selected by Towers Watson, with the concurrence of the plan sponsor. It is beyond the scope of this actuarial valuation to analyze the reasonableness and appropriateness of prescribed methods and assumptions, or to analyze other sponsor elections from among the alternatives available for prescribed methods and assumptions.

Other than prescribed assumptions, ERISA and the Internal Revenue Code require the use of assumptions each of which is "reasonable (taking into account the experience of the plan and reasonable expectations), and which, in combination, offer the actuary's best estimate of anticipated experience under the plan." 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.

A summary of the assumptions and methods used is provided in Appendix A. Note that any subsequent changes in methods or assumptions for the 2015 plan year will change the results shown in this report and could result in plan qualification issues under IRC §436 if the application of benefit

restrictions is affected by the change.

Assumptions and methods under U.S. GAAP

As required by U.S. GAAP, the actuarial assumptions and methods employed in the development of the pension cost have been selected by the plan sponsor. Towers Watson has concurred with these assumptions and methods, except for the expected rate of return on plan assets selected as of January 1, 2015. Evaluation of the expected return assumption was outside the scope of Towers Watson's assignment and would have required substantial additional work that we were not engaged to perform. U.S. GAAP requires that each significant assumption "individually represent the best estimate of a particular future event."

Accumulated other comprehensive (income)/loss amounts shown in the report are shown prior to adjustment for tax effects. Any tax effects in AOCI should be determined in consultation with American Electric Power's tax advisors and auditors.

Nature of actuarial calculations

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 any certainty. The effects of certain plan provisions may be approximated, or determined to be insignificant and therefore not valued. 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. Any rounding (or lack thereof) used for displaying numbers in this report is not intended to imply a degree of precision, which is not a characteristic of actuarial calculations.

If overall future plan experience produces higher benefit payments or lower investment returns 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; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for the measurements (such as the end of an amortization period) or additional contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. It is beyond the scope of this valuation to analyze the potential range of future pension 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, and any organization that provides benefit administration services for the plan, in connection with our actuarial valuation of the pension 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 pension plans. Our objectivity is not impaired by any relationship between American Electric Power and our employer, Towers Watson Delaware Inc.



Joseph A. Perko, FSA, EA, MAAA
Senior Consultant



Thomas P. Perko, ASA, EA
Consulting Actuary

Towers Watson Delaware Inc.

April 2015

V:\AMERICAN ELECTRIC POWER C – 109765\15\RET\PENVAL\12. REPORT AND PRESENTATION\2015 QUALIFIED REPORT.DOCX

This page is intentionally blank

Section 2: Actuarial exhibits

2.1 Summary of liabilities for minimum funding purposes

All monetary amounts shown in US Dollars

Plan Year Beginning	01/01/2015	01/01/2014
A Funding Target (Disregarding At-risk Assumptions)		
1 Funding target	3,941,682,464	3,964,673,907
2 Target normal cost ¹	76,942,794	65,180,624
B Funding Target (At-risk Assumptions)		
1 Funding target	N/A	N/A
2 Target normal cost	N/A	N/A
C Funding Target		
1 Number of consecutive years at-risk	0	0
2 Funding target		
a Active employees – non-vested benefits ²	14,798,412	28,942,493
b Active employees – vested benefits ²	1,578,544,951	1,548,746,031
c Participants with deferred benefits	184,154,401	186,738,398
d Participants receiving benefits	2,164,184,700	2,200,246,985
e Total funding target	3,941,682,464	3,964,673,907
3 Target normal cost	76,942,794	65,180,624

¹ Includes administrative expenses.

² See section 2.7 for definition of vested benefits.

2.2 Change in plan assets during plan year

All monetary amounts shown in US Dollars

Plan Year Beginning	January 1, 2014
A Reconciliation of Market Value of Assets	
1 Market value of assets at January 1, 2014 (including discounted contributions receivable)	4,795,450,954
2 Discounted contributions receivable at January 1, 2014	69,391,840
3 Market value of assets at January 1, 2014 (excluding contributions receivable)	4,726,059,114
4 Employer contributions	
a For prior plan year	71,464,000
b For current plan year	0
c IRC §436 contributions for current plan year	0
d Total	71,464,000
5 Employee contributions	0
6 Benefit payments	(289,402,628)
7 Administrative expenses paid by plan	(5,846,351)
8 Transfers from/(to) other plans	0
9 Investment return	
a Interest and dividends	0
b Investment expenses	0
c Realized gains/(losses)	0
d Change in unrealized appreciation	473,590,114
e Total	473,590,114
10 Market value of assets at January 1, 2015 (excluding contributions receivable)	4,975,864,249
11 Discounted contributions receivable at January 1, 2015	0
12 Market value of assets at January 1, 2015 (including discounted contributions receivable)	4,975,864,249
B Rate of Return on Invested Assets (i.e., for crediting unused funding balances)	
1 Weighted invested assets	4,615,159,259
2 Rate of return	10.26%

2.3 Development of actuarial value of assets

AEP elected a smoothing method that uses seven monthly data points to calculate the AVA.

All monetary amounts shown in US Dollars

Plan Year Beginning				January 1, 2014
Development of AVA				
Month	Expenses	Benefit Payments	Contributions	Fair Value at Beginning of Month
July 2014	318,604	25,879,401	0	4,998,135,996
August 2014	126,547	23,631,905	0	4,957,773,394
September 2014	361,246	23,720,403	0	5,055,475,668
October 2014	2,040,555	23,601,483	0	4,923,246,315
November 2014	1,242,849	24,144,826	0	4,960,772,450
December 2014	583,434	22,266,624	0	4,993,500,456
AVA with receivables				
A Preliminary Actuarial Value of Assets before Corridor as of January 1, 2015				
1 Monthly asset values adjusted for expenses and benefit payments rolled forward to January 1, 2015				
Month	Asset value			
a July 2014	5,292,259,622			
b August 2014	5,201,242,815			
c September 2014	5,250,938,780			
d October 2014	5,069,902,777			
e November 2014	5,057,697,910			
f December 2014	5,040,767,854			
g January 2015	4,975,864,249			
h Average of monthly asset values	5,126,953,429			
2 Preliminary Actuarial Value of Assets and before application of corridor				
				5,126,953,429
B Lower Bound of Corridor (90% of A12 from prior page)				
				4,478,277,825
C Upper Bound of Corridor (110% of A12 from prior page)				
				5,473,450,674
Actuarial Value of Assets as of January 1, 2015				
D (A2 but not smaller than B nor larger than C)				
				5,126,953,429

2.4 Calculation of minimum required contribution

All monetary amounts shown in US Dollars

Reconciliation of Funding Balances as of January 1, 2015			
	Funding Standard Carryover Balance	Prefunding Balance	Total
A Determination of Funding Balances			
1 Funding balance as of January 1, 2014	145,450,308	515,513,143	660,963,451
2 Amount used to offset prior year minimum required contribution ¹	0	0	0
3 Adjustment for investment experience	14,923,202	52,891,648	67,814,850
4 Amount of additional prefunding balance created by election	N/A	0	0
5 Amount of funding balance reduction for current year by election or deemed election	0	0	0
6 Funding balance as of January 1, 2015	160,373,510	568,404,791	728,778,301

Plan Year Beginning	January 1, 2015
B Calculation of Minimum Required Contribution	
1 Target normal cost	76,942,794
2 Funding surplus	(456,492,664)
3 Net shortfall amortization installment (see section 2.5)	0
4 Waiver amortization installment	0
5 Minimum required contribution	0
6 Funding balance available	728,778,301
7 Remaining cash requirement (assuming sponsor elects full use of the available funding balances)	0

The minimum required contribution is determined as of the plan's valuation date. Any payment made on a date other than the valuation date must be adjusted for interest using the plan's effective interest rate of 6.15%.

Additional details regarding the calculation of the minimum required contribution may be obtained from the Form 5500 Schedule SB forms and attachments.

¹ Net of revoked excess application of funding balance, if any.

2.5 Schedule of minimum funding amortization bases

All monetary amounts shown in US Dollars

Type of Base	Date Established	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
Total			0	0

2.6 Calculation of estimated maximum deductible contribution

All monetary amounts shown in US Dollars

Based on Plan Year	2015
A Basic Maximum	
1 Funding target	3,941,682,464
2 Target normal cost	76,942,794
3 Actuarial value of assets	5,126,953,429
4 50% of funding target	1,970,841,232
5 Additional funding target for future compensation or benefit increases	91,736,417
6 Basic maximum deductible contribution	954,249,478
B At-risk Maximum¹	
1 Funding target (at-risk assumptions)	N/A
2 Target normal cost (at-risk assumptions)	N/A
3 Actuarial value of assets	N/A
4 At-risk maximum deductible contribution	N/A
C Minimum Required Contribution	0
D Estimated Maximum Deductible Contribution	954,249,478

The estimated maximum deductible contribution applies to the tax year in which the plan year ends, and is based on our understanding of IRC §404(a)(1). Regulatory guidance from the IRS/Treasury is pending. Allocations of costs to inventory have not been considered, and amounts deductible under state law may differ. Deductibility can be influenced by timing of contributions, differences between fiscal year and plan year, and differences (if any) between the years to which prior contributions were assigned for minimum funding purposes and the years in which they were deducted. Our results have not been adjusted for non-deducted contributions included in the valuation assets. We recommend the plan sponsor review with tax counsel the tax-deductibility of all contributions as Towers Watson does not provide legal or tax advice.

The calculation above reflects the interest rate corridors of HATFA (including their effect on at-risk status), which is not required in determining the maximum deductible contribution. Not reflecting such corridors would likely result in a higher maximum deductible amount, but would require substantial additional work that may not be of value to the Company. We can discuss not reflecting the corridors if the Company wishes to consider contributions in excess of the estimated maximum amount above.

¹ At-risk maximum applies only for plans not in at-risk status for purposes of determining maximum deductible contributions for the plan year.

In addition, the actuarial value of assets shown is the same as used for determining the minimum required contribution. Thus contributions receivable (if any) are discounted at HATFA rates reflecting the corridors, and the limit on the expected return on assets reflected in asset smoothing (if applicable) is the 3rd segment rate, reflecting the corridors as expressly allowed by IRS Notice 2012-61 when the 3rd segment rate reflecting the corridors is higher than the rate ignoring the corridors.

This limit has been determined without regard to the special rule of IRC §404(o)(2)(B) providing a potentially higher maximum deduction based on at-risk assumptions, which is available for plans that are not at risk.

2.7 ASC 960 (plan accounting) information

All monetary amounts shown in US Dollars

Plan Year Beginning	January 1, 2015
A Present Value of Accumulated Benefits	
1 Vested accumulated benefits	
a Active employees	1,617,304,612
b Participants with deferred benefits	189,876,563
c Participants receiving benefits	2,237,279,003
d Total vested accumulated benefits	4,044,460,178
2 Non-vested accumulated benefits	18,792,291
3 Total accumulated benefits	4,063,252,469
4 Market value of assets ¹	4,975,864,249
B Reconciliation of Present Value of Accumulated Benefits	
1 Present value of accumulated benefits as of December 31, 2013	4,105,351,485
2 Changes during the year due to:	
a Benefits accumulated	62,892,181
b Actuarial (gains)/losses	(30,770,352)
c Decrease in the discount period	237,765,475
d Actual benefits paid	(289,402,628)
e Assumption changes	(22,583,692)
f Plan amendments	0
g Net increase/(decrease)	(42,099,016)
3 Present value of accumulated benefits as of December 31, 2014	4,063,252,469

Actuarial Assumptions and Methods

The present value of accumulated benefits was developed using the actuarial assumptions described in Appendix A, except a discount rate of 6.00% was used. For the prior valuation, a discount rate of 6.00% was used. The same plan provisions shown in Appendix B were used to determine the present value of accumulated benefits.

Plan Provisions

Plan provisions reflected in these calculations are described in Appendix B.

¹ Assets include accrued contributions for the 2014 plan year of \$0 not yet deposited at January 1, 2015.

Accumulated and Vested Benefits

Accumulated benefits include benefits earned under the plan's benefit formula based on service rendered and compensation earned before the measurement date.

Benefits included in vested benefit are the same as described above for accrued benefits, except the following benefits are excluded:

- Disability benefits in excess of the value of standard termination benefits (retirement benefits for those eligible) for participants who are not disabled on the measurement date
- Early retirement benefits and supplements in excess of standard termination benefits for participants who have not yet satisfied the eligibility requirements for those benefits.
- Death benefits in excess of the plan's QPSA
- All benefits for participants who are not yet vested in their accrued benefits or eligible for other benefits

2.8 Pension obligations and funded position under U.S. GAAP (ASC 715)

All monetary amounts shown in US Dollars

Measurement Date	01/01/2015	01/01/2014
A Obligations		
1 Accumulated Benefit Obligation (ABO)		
a. Active participants	2,093,049,746	1,909,758,003
b. Participants with deferred benefits	234,062,526	224,179,748
c. Participants receiving benefits	2,634,437,247	2,489,329,403
d. Total	4,961,549,519	4,623,245,673
2 Future salary increases	159,665,039	118,720,867
3 Projected benefit obligation (PBO)	5,121,214,558	4,741,966,540
B Assets		
1 Fair value [FV] ¹	4,975,864,249	4,726,059,114
2 Investment losses/(gains) not yet in market-related value	(280,508,021)	(218,503,581)
3 Market-related value	4,695,356,228	4,507,555,533
C Funded Position		
1 Overfunded/(underfunded) PBO	(145,350,309)	(15,907,426)
2 PBO funded percentage	97.2%	99.7%
D Amounts in Accumulated Other Comprehensive Income		
1 Prior service cost/(credit)	5,395,057	7,900,618
2 Net actuarial loss/(gain)	1,541,686,894	1,489,707,968
3 Total	1,547,081,951	1,497,608,586
E Key Assumptions		
1 Discount rate	4.00%	4.70%
2 Rate of compensation increase	Rates vary by age from 3.5% to 12.0%	Rates vary by age from 3.5% to 11.5%
F Census Date		
	01/01/2015	01/01/2014

The results above may differ from the amounts reported in American Electric Power's December 31, 2014 financial statements because year-end financial reporting is prepared before the corresponding valuation results are available.

¹ Excludes receivable contributions.

2.9 Pension cost under U.S. GAAP (ASC 715)

All monetary amounts shown in US Dollars

Fiscal Year Ending	12/31/2015	12/31/2014
A Pension Cost		
1 Service cost	92,514,545	71,463,632
2 Interest cost	202,041,675	217,701,098
3 Expected return on assets	(274,742,098)	(261,710,475)
4 Net prior service cost/(credit) amortization	2,218,916	2,505,561
5 Net loss/(gain) amortization	104,438,504	121,473,702
6 Net periodic pension cost/(income)	126,471,542	151,433,518
7 Curtailments	0	0
8 Settlements	0	0
9 Special/contractual termination benefits	0	0
10 Total pension cost	126,471,542	151,433,518
B Key Assumptions¹		
1 Discount rate	4.00%	4.70%
2 Rate of return on assets	6.00%	6.00%
3 Rate of compensation increase	Rates vary by age from 3.5% to 12.0%	Rates vary by age from 3.5% to 11.5%
C Census Date	01/01/2015	01/01/2014

¹ These assumptions were used to calculate Net Periodic Pension Cost/(Income) as of the beginning of the year. For other assumptions used, as well as assumptions used for interim remeasurements, if any, refer to Appendix A.

2.10 Development of market-related value of assets under U.S. GAAP (ASC 715)

All monetary amounts shown in US Dollars

Fiscal Year Ending		12/31/2015		
Market-Related Value of Assets as of January 1, 2015				
1	Fair value of assets as of January 1, 2015			4,975,864,249
2	Deferred investment (gains)/losses for prior periods			
	Fiscal Year	(Gain)/Loss	Percent Deferred	Deferred Amount
	a 2015	(190,546,751)	80%	(152,437,401)
	b 2014	(50,899,071)	60%	(30,539,443)
	c 2013	(249,128,700)	40%	(99,651,480)
	d 2012	10,601,513	20%	2,120,303
	e Total			(280,508,021)
3	Market-Related Value of Assets			4,695,356,228

2.11 Summary of net prior service cost/(credit) balances

All monetary amounts shown in US Dollars

Base Number	Net Amount at Prior Financial Year End	Remaining Amortization Period	Amortization Amount	Effect of Curtailments	Other Events
1	17,665	0.16695	17,665	0	0
2	447,206	1.93302	231,351	0	0
3	2,653,043	3.01100	881,116	0	0
4	23,281	0.71015	23,281	0	0
5	14,445	1.49318	9,674	0	0
6	2,239,417	2.12100	1,055,829	0	0
Total	5,395,057		2,218,916	0	0

Summary of Net Loss/(Gain)¹

Net Amount at 01/01/2015	Amortization Amount in 2015	Effect of Curtailments	Effect of Settlements	Other Events
1,541,686,894	104,438,504	0	0	0

¹ See Appendix A for description of amortization method.

This page is intentionally blank

Section 3: Participant data

3.1 Summary of plan participants

All monetary amounts shown in US Dollars

Census Date	January 1, 2015	January 1, 2014
A Active Employees		
1 Number	17,737	17,684
2 Expected plan compensation for year beginning on the valuation date (limited by IRC §401(a)(17))	1,664,610,452	1,556,194,791
3 Average plan compensation	93,850	88,000
4 Average age	47.8	47.5
5 Average credited service	18.3	18.0
6 Average future working life (years)	12.544	10.159
B Participants with Deferred Benefits		
1 Number (non-cash balance)	1,663	1,864
2 Total annual pension (non-cash balance)	9,296,296	10,334,827
3 Average annual pension (non-cash balance)	5,590	5,544
4 Number of cash balance	1,971	1,778
5 Total cash balance	141,908,731	136,112,085
6 Average cash balance	71,998	76,553
7 Average age	53.4	53.5
8 Distribution at January 1, 2015		
NON-CASH BALANCE		
Age	Number	Annual pension
Under 40	1	423
40-44	8	3,799
45-49	128	4,151
50-54	429	5,352
55-59	642	5,811
60-64	430	6,063
65 and over	25	4,023
Total	1,663	5,590
CASH BALANCE		
Age	Number	Annual pension
Under 40	410	13,530
40-44	188	29,174
45-49	246	41,220
50-54	341	63,993
55-59	396	109,839
60-64	258	147,045
65 and over	132	132,434
Total	1,971	71,998

C Participants Receiving Benefits

1 Number	15,722	16,041
2 Total annual pension	235,331,778	238,294,213
3 Average annual pension	14,712	14,855
4 Average age	74.4	74.1
5 Distribution at January 1, 2015		

Age	Number	Annual Pension
Under 55	86	6,490
55-59	468	13,852
60-64	1,770	18,166
65-69	3,320	16,981
70-74	2,725	12,629
75-79	2,419	13,817
80-84	2,209	14,986
85 and over	2,725	12,779
Total	15,722	14,712

3.2 Participant reconciliation

	Active	Deferred Inactive	Currently Receiving Benefits	Total
1 Included in January 1, 2014 valuation	17,684	3,642	16,041	37,367
2 Change due to:				
a New hire and rehire	934	(12)	(1)	921
b Non-vested termination	(68)	0	0	(68)
c Vested termination	(329)	329	0	0
d Retirement	(110)	(144)	254	0
e Disability	14	0	14	0
f Death without beneficiary	(36)	(93)	(274)	(403)
g Death with beneficiary	(1)	(3)	(207)	(211)
h New beneficiary	0	0	211	211
i Cashout	(292)	(144)	0	(436)
j Miscellaneous ¹	(31)	60	(317)	(288)
k Net change	53	(8)	(319)	(274)
3 Included in January 1, 2015 valuation	17,737	3,583	15,722	37,093

¹ Includes adjustments for prior omissions and data corrections.

3.3 Age and service distribution of participating employees

Number distributed by attained age and attained years of credited service

Attained Age	Years Of Credited Service															
	Under 1			1 to 4			5 to 9			10 to 14			15 to 19			
	No.	Average		No.	Average		No.	Average		No.	Average		No.	Average		
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.	
<25				258	64,178	3,353	14									
25 to 29				578	70,924	5,199	471	81,171	15,198	12						
30 to 34				454	74,545	6,161	943	85,130	19,941	239	90,807	32,456	6			
35 to 39				322	74,224	6,763	820	85,697	23,769	453	96,620	41,830	159	91,969	53,710	
40 to 44				232	78,603	8,660	668	87,768	28,562	435	97,490	49,948	331	99,062	67,919	
45 to 49				183	80,816	9,405	515	87,540	33,010	312	100,941	61,368	296	100,152	81,124	
50 to 54				119	79,446	11,253	396	87,982	36,911	262	98,849	68,457	307	96,380	89,748	
55 to 59				90	84,863	12,292	271	90,544	43,949	200	96,585	78,696	189	100,172	108,222	
60 to 64				50	79,507	12,108	163	85,708	44,585	87	98,310	89,235	95	99,540	119,463	
65 to 69				16			40	97,721	59,454	30	105,376	108,090	15			
>70				1			1			9			2			

Attained Age	Years Of Credited Service														
	20 to 24			25 to 29			30 to 34			35 to 39			40 & up		
	No.	Average		No.	Average		No.	Average		No.	Average		No.	Average	
		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.		Comp.	Cash Bal.
<25															
25 to 29															
30 to 34															
35 to 39	5														
40 to 44	134	100,867	91,439	4											
45 to 49	465	107,910	113,437	348	106,134	134,109	21	87,151	130,695						
50 to 54	398	94,108	120,792	866	105,658	160,936	892	101,132	186,759	150	99,438	209,161	1		
55 to 59	299	95,940	144,137	562	96,445	176,664	984	108,173	229,333	1,031	102,170	243,699	39	92,825	265,717
60 to 64	136	88,590	148,010	219	95,623	198,612	326	105,086	257,726	414	105,642	290,507	231	102,572	315,925
65 to 69	15			34	89,466	202,226	34	108,774	289,599	29	95,525	302,924	45	116,024	441,265
>70	3			3			1			1			3		

This page is intentionally blank

Appendix A: Statement of actuarial assumptions and methods

1. Assumptions and methods for contribution purposes

Actuarial Assumptions and Methods — Contributions

Economic Assumptions

Interest rate basis:

- Applicable month (published) October 2014
- Yield curve basis Segment rates

Funding interest rates:

	Reflecting Corridors	Not Reflecting Corridors
● First segment rate	4.72%	1.55%
● Second segment rate	6.11%	4.06%
● Third segment rate	6.81%	5.15%
● Effective interest rate	6.15%	4.19%

Annual rates of increase

- Compensation:

	<i>Age</i>	<i>Rate</i>
– Representative rates	< 26	12.00%
	26 – 30	8.50%
	31 – 35	7.00%
	36 – 40	6.00%
	41 – 45	5.00%
	46 – 50	4.00%
	> 50	3.50%
– Weighted average		4.75%
- Cash balance crediting rate 4.00%
- Lump sum/annuity conversion rate October 2014 segment rates
- Future Social Security wage bases 4.00%
- Statutory limits on compensation N/A
- Expected rate of return on assets for prior year 6.00% but not greater than the third segment rate

Demographic Assumptions

Inclusion Date The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees It was assumed there will be no new or rehired employees.

Mortality

- **Healthy** Separate rates for non-annuitants (based on RP-2000 "Employees" table without collar or amount adjustments, projected to 2030 using Scale AA and annuitants (based on RP-2000 "Healthy Annuitants" table without collar or amount adjustments, projected to 2022 using Scale AA.
- **Disabled** Post-1994 current liability disabled
- **Lump sum/annuity conversion** Applicable 417(e) IRS Mortality Table

Termination Rates varying by age and service:

Percentage leaving during the year		
Attained Age	Less than five years of service	Five or more years of service
< 25	8.00%	7.30%
25 – 29	8.00%	5.00%
30 – 34	8.00%	4.20%
35 – 39	8.00%	3.40%
40 – 44	8.00%	2.50%
45 – 49	8.00%	1.90%
50 +	8.00%	1.70%

Disability Rates apply to employees not eligible to retire and vary by age and sex as indicated by the following sample values:

Percentage becoming disabled during the year		
Age	Male	Female
20	0.060%	0.090%
30	0.060%	0.090%
40	0.074%	0.110%
50	0.178%	0.267%
60	0.690%	1.035%

Retirement Rates varying by age; average retirement age 64:

Percentage retiring during the year	
Age	Rate
55 – 57	1.00%
58 – 60	6.00%
61 – 63	16.00%
64 – 69	13.00%
70 +	100.00%

Benefit commencement date:

- Preretirement death benefit The later of the death of the active participant or the date the participant would have attained age 55.
- Deferred vested benefit The later of age 55 or termination of employment.
- Disability benefit Upon disablement.
- Retirement benefit Upon termination of employment.

Form of payment 40% lump sum; 60% annuity for retirement eligible East grandfathered participants and 75% lump sum; 25% annuity for all other participants. Married participants are assumed to elect the 50% joint and survivor annuity and unmarried participants are assumed to elect the single life annuity. No other optional form of payment election is assumed.

Percent married 80% of male participants; 70% of female participants.

Spouse ages Wives are assumed to be three years younger than husbands.

Valuation pay 2015 base salary pay (Grandfathered) – not estimated due to freeze of final average pay accruals at December 31, 2010.

2015 expanded pay (Cash Balance) – sum of the following updated one year according to the salary increase assumption:

- (i) 2015 base salary
- (ii) a 15% increase for overtime eligible employees and a target bonus percent increase for incentive-eligible employees

At-risk assumptions If at-risk calculations are required, all participants eligible to elect benefits during the current and subsequent ten plan years are assumed to commence benefits at the earliest possible date under the plan, but not before the end of the current plan year, except in accordance with the regular valuation assumptions. In addition, all participants (not just those eligible to begin benefits within the next 11 years) are assumed to elect the most valuable form of benefit under the plan, which is usually a joint and survivor form of payment.

Timing of benefit payments Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

Methods

Valuation date First day of plan year.

Funding target Present value of accrued benefits.

Target normal cost Present value of benefits expected to accrue during plan year plus plan-related expenses expected to be paid from the trust (based on actual trust expenses paid in previous year, adjusted by the difference between the prior and expected current year PBGC premiums).

Actuarial value of assets

Average of the fair market value of assets on the valuation date and the six immediately preceding months, adjusted for contributions, benefit/expense payments and expected investment returns. The average asset value must be within 10% of fair value, including contributing receivable. The method of computing the actuarial value of assets complies with rules governing the calculation of such values under PPA.

These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a bias to produce an actuarial value of assets that is below the market value of assets.

Benefits Not Valued

All benefits were valued except:

- Any liabilities that may be reinstated in the event of reemployment
- The alternate benefit formula for members who did not elect to withdraw their employee contributions
- Any liabilities relating to members' unwithdrawn employee contributions
- Liabilities related to special benefits as a result of termination due to downsizing and restructuring

Data Sources

Towers Watson used participant and asset data as of January 1, 2015, supplied by Mercer, the third party administrator for AEP. Data were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date. To the extent that data were not provided, estimates were made based on prior year information.

The Company also provided the amounts recognized in accumulated other comprehensive income as of the end of the December 31, 2014 fiscal year and amounts recognized in other comprehensive income in the December 31, 2014 fiscal year.

2. Assumptions and methods for pension cost purposes

Actuarial Assumptions and Methods — Pension Cost

Economic Assumptions

Discount rate		4.00%
Return on assets*		6.00%
Annual rates of increase		
● Compensation:		
— Representative rates	<i>Age</i>	<i>Rate</i>
	< 26	12.00%
	26 – 30	8.50%
	31 – 35	7.00%
	36 – 40	6.00%
	41 – 45	5.00%
	46 – 50	4.00%
	> 50	3.50%
— Weighted average		4.80%
● Cash balance crediting rate		4.00%
● Lump sum/annuity conversion rate		5.00%
● Future Social Security wage bases		4.00%
● Statutory limits on compensation		3.00%

The return on assets shown above is net of investment expenses and administrative expenses assumed to be paid from the trust.

* Also used as discount rate for plan accounting (ASC 960) purposes.

Demographic Assumptions

Inclusion Date The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees It was assumed there will be no new or rehired employees.

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 no collar adjustments.

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

Termination Rates varying by age and service

Attained Age	Percentage leaving during the year	
	Less than five years of service	Five or more years of service
< 25	8.00%	7.30%
25 – 29	8.00%	5.00%
30 – 34	8.00%	4.20%
35 – 39	8.00%	3.40%
40 – 44	8.00%	2.50%
45 – 49	8.00%	1.90%
50 +	8.00%	1.70%

Disability Rates apply to employees not eligible to retire and vary by age and sex as indicated by the following sample values:

Age	Percentage becoming disabled during the year	
	Male	Female
20	0.060%	0.090%
30	0.060%	0.090%
40	0.074%	0.110%
50	0.178%	0.267%
60	0.690%	1.035%

Retirement Rates varying by age; average retirement age 64:

Percentage retiring during the year	
Age	Rate
55-57	1.00%
58-60	6.00%
61-63	16.00%
64-69	13.00%
70+	100.00%

Benefit commencement date:

- Preretirement death benefit The later of the death of the active participant or the date the participant would have attained age 55.
- Deferred vested benefit The later of age 55 or termination of employment.
- Disability benefit Upon disablement.
- Retirement benefit Upon termination of employment.

Form of payment 40% lump sum; 60% annuity for retirement eligible East grandfathered participants and 75% lump sum; 25% annuity for all other participants. Married participants are assumed to elect the 50% joint and survivor annuity and unmarried participants are assumed to elect the single life annuity. No other optional form of payment election is assumed.

Percent married 80% of male participants; 70% of female participants.

Spouse ages Wives are assumed to be three years younger than husbands.

Valuation pay 2015 base salary pay (Grandfathered) – not estimated due to freeze of final average pay accruals at December 31, 2010.

2015 expanded pay (Cash Balance) – sum of the following updated one year according to the salary increase assumption:

- (i) 2015 base salary
- (ii) a 15% increase for overtime eligible employees and a target bonus percent increase for incentive-eligible employees

Administrative expenses Discount rate is net of expenses paid by the trust.

Timing of benefit payments Annuity payments are payable monthly at the beginning of the month and lump sum payments are payable on date of decrement.

Methods

Service cost and projected benefit obligation	Projected unit credit
Market-related value of assets	<p>The market value on the valuation date less the following percentages of prior years' investment gains and losses:</p> <ul style="list-style-type: none"> – 80% of the prior year – 60% of the second prior year – 40% of the third prior year – 20% of the fourth prior year <p>The investment gain or loss is calculated each year by:</p> <ul style="list-style-type: none"> – Rolling forward the prior year's fair value of assets with actual contributions, benefit payments and expected return on investments using the long-term yield assumption – Comparing the actual fair value of assets to the expected value calculated above.
Benefits not valued	<p>All benefits were valued except:</p> <ul style="list-style-type: none"> – Any liabilities that may be reinstated in the event of reemployment – The alternate benefit formula for members who did not elect to withdraw their employee contributions – Any liabilities relating to members' unwithdrawn employee contributions – Liabilities related to special benefits as a result of termination due to restructuring or downsizing

Data Sources

Towers Watson used participant and asset data as of January 1, 2015, supplied by Mercer, the third party administrator for AEP. Data were reviewed for reasonableness and consistency, but no audit was performed. Based on discussions with the plan sponsor, assumptions or estimates were made when data were not available, and the data was adjusted to reflect any significant events that occurred between the date the data was collected and the measurement date. To the extent that data were not provided, estimates were made based on prior year information.

The Company also provided the amounts recognized in accumulated other comprehensive income as of the end of the December 31, 2014 fiscal year and amounts recognized in other comprehensive income in the December 31, 2014 fiscal year.

Assumptions Rationale - Significant Economic Assumptions for Contributions

Discount rate	The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.
Cash Balance Interest crediting rate	The plan credits interest to cash balance accounts using the 30-year Treasury rate for the September of the preceding year with a minimum rate of 4.00%. The assumption is based on the plan sponsor's long-term expectations of yields on U.S. Treasuries. We believe that the selected assumption does not significantly conflict with what would be reasonable based on market conditions at the measurement date.
Lump sum conversion rate	As required by IRC 430, lump sum benefits are valued using "annuity substitution", so that the interest rates assumed are effectively the same as described above for the discount rate. The adjustment results in a fixed assumption of 5.00%, because the plan's fixed minimum conversion rate is expected to always produce the larger lump sum, even when the variability of IRC 417(e) assumptions is considered.
Rates of increase in:	
<ul style="list-style-type: none"> • Compensation 	Rates of increase in compensation were based on an experience study conducted in 2014, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.
<ul style="list-style-type: none"> • National average wages (NAW) (e.g., Social Security wage bases) 	The assumed NAW is based on assumed CPI as shown below, plus assumed increases in real wages (the portion of GDP increases that becomes part of wages). Such assumed future increases in real wages are based on a combination of historical averages and an expectation that the future rates will be lower (higher) than historical averages.
<ul style="list-style-type: none"> • Increases in statutory limits (CPI) 	The assumed CPI is based on a combination of historical average CPI, current conditions and an assumed progression from recently experienced CPI to the long-term expected level. The final assumption represents a composite of current rates and long term expected rates.

Assumptions Rationale - Significant Economic Assumptions for Accounting

Discount rate	As required by U.S. GAAP, the discount rate was chosen by the plan sponsor based on market information on the measurement date.
Expected return on plan assets	We understand that the expected return on assets assumption reflects the plan sponsor's estimate of future experience for trust asset returns, reflecting the plan's current asset allocation and any expected changes during the current plan year, current market conditions and the plan sponsor's expectations for future market conditions.

Cash balance interest crediting rate	The plan credits interest to cash balance accounts using the 30-year Treasury rate for the September of the preceding year with a minimum rate of 4.00%. The assumption is based on the plan sponsor's long-term expectations of yields on U.S. Treasuries. We believe that the selected assumption does not significantly conflict with what would be reasonable based on market conditions at the measurement date.
Conversion rate for lump sums and annuities	The plan uses IRC 417(e)(3) as its basis to convert between lump sums and annuities. Because the 417(e)(3) interest rates are based on corporate bond yields, the assumption is based on the plan sponsor's long-term expectations of yields on high-quality corporate bonds. We believe that the selected assumption does not significantly conflict with what would be reasonable based on market conditions at the measurement date.
Rate of increase in compensation	Rates of increase in compensation were based on an experience study conducted in 2014, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.

Assumptions Rationale - Significant Demographic Assumptions

Mortality	Assumptions were selected by the plan sponsor and, as required by U.S. GAAP, represent a best estimate of future experience.
Termination	<p>Termination rates are based on an experience study conducted in 2014, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.</p> <p>Assumed termination rates differ by service because of observed differences in termination rates between employees who have attained at least five years of service and those with less than five years of service.</p>
Retirement	Retirement rates are based on an experience study conducted in 2014, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.
Form of payment	Rates at which retirees elect lump sums versus annuities are based on an experience study conducted in 2014, with annual consideration of whether any conditions have changed that would be expected to produce different results in the future.

Source of Prescribed Methods

Funding methods	The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.
Accounting methods	The methods used for accounting purposes as described in Appendix A, including the method of determining the market-related value of plan assets, are "prescribed methods set by another party", as defined in the actuarial standards of practice (ASOPs). As required by U.S. GAAP, these methods were selected by the plan sponsor.

Changes in Assumptions and Methods

Change in assumptions since prior valuation	<p>The interest rates used to calculate the funding target, target normal cost and to convert 417(e) based forms of payments were updated from the segment rates as of October 2013 to the segment rates as of October 2014.</p> <p>The required mortality table used to value the funding target and target normal cost was updated to include one additional year of projected mortality improvements.</p> <p>Assumed plan-related expenses of \$5,846,166 were added to the target normal cost.</p> <p>The discount rate decreased from 4.70% to 4.00%.</p> <p>The mortality table used to value the benefit obligations was updated from the RP2000 with projections to 2021 for annuitants and to 2029 for nonannuitants to modified versions of RP-2014 with long-term improvement rates of 0.75%.</p> <p>The salary increase rate was updated to reflect experience through 2013.</p> <p>Retirement and termination rates were updated to reflect experience through 2013.</p> <p>The mortality used to convert to 417(e) based forms of payment was updated for an additional year of mortality improvements.</p>
Change in methods since prior valuation	None.

This page is intentionally blank

Appendix B1: Summary of plan provisions covered by the former East Retirement Plan

Plan Provisions

Effective Date	May 1, 1955. Restated effective January 1, 2012.
Recent Amendments	Executed as of April 3, 2012.
Covered Employees	Employees become Members of the Plan on the first day of the month following completion of one year of service.
Participation Date	Date of becoming a covered employee.

Definitions

Grandfathered employee	If, on December 31, 2000, either: <ul style="list-style-type: none"> – Participating in AEP System Retirement Plan, or – In one-year waiting period for AEP System Retirement Plan participation.
Vesting service	A period of time from employment date to termination date and, in general, includes periods of severance that are not in the excess of 12 months.
Accredited service	Elapsed time from date of hire (from benefit service start date).
Cash balance pay	Pay received during the year, including base pay, overtime, shift differential/Sunday premium pay and incentive pay, subject to IRS limits.
Covered compensation amount	The average of the Social Security taxable wage based during the 35-year period including the year in which the participant retires, dies, becomes disabled or otherwise terminates employment. This monthly average is calculated to the next lower or equal whole dollar amount and is then rounded to nearest \$50.
Final average pay	Average of the highest 36-consecutive months of base pay out of the last 120 months of employment, subject to IRS limits.
Normal retirement date (NRD)	The first day of the calendar month whose first day is nearest the later of the member's 65 th birthday or the completion of five years of Vesting Service.

Cash balance account Recordkeeping account to which annual Interest Credits and annual Company Credits are credited. The cash balance account is updated at the end of each plan year and is equal to:

$$\begin{aligned}
 &\text{Cash Balance Account as of the} \\
 &\quad \text{end of the prior plan year} \\
 &\quad + \\
 &\quad \text{Interest Credits} \\
 &\quad + \\
 &\quad \text{Company Credits}
 \end{aligned}$$

Cash balance benefit Cash Balance Account converted to a monthly annuity

Opening balance For those participating in or eligible for the AEP System Retirement Plan on December 31, 2000, opening balance is calculated as follows:

- Present value of monthly normal retirement benefit determined as of December 31, 2000, and payable at age 65 (or current age if older)
 - Present value determined based on 5.78% interest and IRS regulated mortality (GAM83 Unisex) data for lump sums (postretirement only)

Plus

- Credit for early retirement subsidy for monthly payments beginning at age 62 (or current age if older)

Plus

- Transition credit based on age, service and pay received in 2000 (see "Company Credits" for credit percentages)
 - Age and service based on completed whole years as of December 31, 2000.

For employees hired on or after January 1, 2001, opening balance is \$0.

Interest credits Interest credits are applied to beginning of year account balance on December 31 each year.

Based on the average 30-year Treasury Bond rate for November of the previous year.

Minimum of 4%.

Company credits Applied to account balance on December 31 or termination date if earlier.

Amount is a percentage of eligible pay received during the year, based on age plus years of Vesting Service (age and service in completed whole years as of December 31).

<i>Age Plus Years of Service</i>	<i>Annual Company Credit</i>
Less than 30	3.0%
30 – 39	3.5%
40 – 49	4.5%
50 – 59	5.5%
60 – 69	7.0%
70+	8.5%

Monthly Grandfathered Benefit	<p>Sum of (1), (2) and (3):</p> <ul style="list-style-type: none"> (1) 1.10% of Final Average Pay x Accredited Service up to 35 years (2) 0.50% of Final Average Pay Less Covered Compensation x Accredited Service up to 35 years (3) 1.33% of Final Average Pay x Accredited Service between 35 and 45 years <p>Accruals for the grandfathered benefit ceased on December 31, 2010.</p>
Long-term disability and paid leaves	Participants do not receive company credits while on long-term disability. Vesting service continues.
Unpaid leave	No compensation for annual Company Credit. Vesting service continues.

Eligibility for Benefits

Normal retirement	All members at or after their Normal Retirement Date.
Early retirement	Any time after attainment of age 55 and completion of five years of vesting. Applicable only to grandfathered benefits.
Postponed retirement	Retirement after Normal Retirement Date.
Vested termination	All members who terminate employment after completion of three years of Vesting Service, or upon death.
Disability	All members who are unable to work at own occupation solely because of sickness or injury for the first 24 months of disability. After 24 months of disability, the participant is eligible if unable to work at any gainful occupation for which the participant may be able, or may reasonably become qualified by education, training or experience, to perform.
Surviving spouse	The surviving spouse of a Grandfathered Member who retired or is eligible to retire on Normal or Early Retirement and who was married to that spouse for the year preceding commencement and whose grandfathered benefit exceeds his or her Cash Balance Benefit.
Preretirement death	Beneficiary of deceased member.

Benefits Paid Upon the Following Events

Normal retirement	For Grandfathered Employees, the better of the monthly grandfathered benefit or the Cash Balance Benefit determined as of Normal Retirement Date. For all other employees, the Cash Balance Benefit determined as of Normal Retirement Date.
Early retirement	<p>For Grandfathered Employees, the better of:</p> <ul style="list-style-type: none"> (1) The monthly grandfathered retirement benefit reduced by 3% per year for each year commencement precedes age 62, and (2) The Cash Balance Benefit determined as of the Early Retirement Date. <p>For all other employees, the Cash Balance Benefit determined as of the Early Retirement Date.</p>

Deferred vested retirement	The accrued Normal Retirement Benefit (better of Cash Balance and Grandfathered Benefits, if eligible), payable at Normal Retirement Date or actuarially reduced and payable at any age.
Disability	<p>The greater of (1) or (2):</p> <ol style="list-style-type: none"> (1) Accrued Grandfathered Retirement Benefit reduced as in the Early Retirement Benefit. If retirement occurs prior to age 55, the benefit is further reduced actuarially from age 55. The Disability Retirement Benefit will reflect Accredited Service that accrued (at most recent rate of base earnings) to a member while receiving benefits under the Company's LTD plan. (2) The Cash Balance Benefit with continued Company Credits while disabled. <p>Benefit (1) applies for Grandfathered Employees only.</p>
Preretirement death	<p>Better of (1) or (2):</p> <ol style="list-style-type: none"> (1) The grandfathered monthly benefit as if the employee commenced a 60% qualified joint and survivor benefit at his earliest retirement date (2) Annuity equivalent of Cash Balance account or the cash balance account. <p>Benefit (1) applies for a Grandfathered Employee whose beneficiary is his or her spouse.</p>
Surviving spouse benefits	A benefit payable for life equal to 30% of the single life annuity payable to the grandfathered member. The spouse's benefit is actuarially reduced for each year by which the spouse is more than ten years younger than the member. Payable to Grandfathered Employees only.

Other Plan Provisions

Forms of payment

- Grandfathered employees
 - The following are available for Grandfathered Employees for both the Grandfathered Benefit and the Cash Balance Benefit:
 - Full lump sum payment.
 - Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
 - Monthly payment:
 - Single life annuity.
 - Optional joint annuities (spouse or other beneficiary).
 - Available in 40%, 50%, 60%, 75%, 100%.
 - Can elect pop-up and/or level income options.
 - Automatic company-paid 30% surviving spouse annuity included in Grandfathered Benefit annuity if terminate on or after age 55 and married at least one year. Cash Balance Benefit is actuarially reduced for this feature.

A one-time option to elect a lump sum of the accrued benefit for terminated vested participants whose benefit was determined in no way by reference to either the AEP or CSW cash balance formulas was offered during the period from May 1, 2012 through June 30, 2012. Participants eligible for the window were also permitted to elect any of the other optional forms of payment generally applicable to such a participant under the normal terms of the plan document. Any participant who elected to commence benefits under this window, regardless of lump sum or annuity election, had a benefit commencement date of August 1, 2012.

- Employees hired on or after January 1, 2001
 - The following are available for those hired on or after January 1, 2001:
 - Full lump sum payment.
 - Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
 - Monthly payment:
 - Single life annuity.
 - Joint annuities (spouse or other beneficiary).
 - Available in 50%, 75%, 100%.

Form of payment conversion for non-417(e) covered conversions

- Cash balance 7.50% interest and the applicable 417(e) Mortality Table.
 - Grandfathered benefit 7.50% interest and the 1974 George B. Buck Mortality Table.
- Pension Increases None.

Plan Participants' Contributions

Prior to January 1, 1978, employee contributions were required as a condition of Membership. In May and June of 1981, Members were permitted an election to withdraw those contributions. Those who did not elect to withdraw have retirement benefits based on a formula that differs from the formulas previously described in this section. However, the number of nonelecting Members is so small that special plan provisions for that group have not been included in this summary.

Maximum on benefits and pay

All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost but not for determining contributions.

Benefits not valued

A small portion of the population made employee contributions to the plan. Because the amount of these contributions is not material to the plan, they are not part of the valuation.

Participants who were employees of Columbus Southern Power (CSP) at the time AEP acquired that company have a frozen benefit under the CSP benefit formula at December 31, 1986. Benefits for these participants are the greater of an all-service AEP benefit and a two-part benefit consisting of the frozen CSP benefit plus an AEP benefit accrued from January 1, 1987. Because this applies to a small portion of the population and the CSP frozen benefit is not often the greater benefit for these participants, this benefit is not valued.

Plan status

Ongoing.

Future Plan Changes

Towers Watson is not aware of any future plan changes that are required to be reflected.

Changes in Benefits Valued Since Prior Year

None.

Appendix B2: Summary of plan provisions covered by the former West Retirement Plan

Plan Provisions

Effective Date	January 1940. Restated effective January 1, 1997.
Recent Amendments	Executed as of April 3, 2012.
Covered Employees	All full-time employees of a Participating Company employed by CSW before January 1, 2001, and not covered by a union (that has not bargained for coverage) or another pension plan provided by AEP. Part-time employees of the Company had to work more than 1,000 hours in the first anniversary year or subsequent calendar years.
Participation Date	Date of becoming a covered employee

Definitions

Grandfathered employee	Employees who were at least age 50 with ten years of vesting service of July 1, 1997.
Vesting service	All service from date of hire in completed years.
Credited service	The aggregate of: For the period prior to January 1, 1976: (1) The number of full years in the last continuous period that employee was a participant after June 30, 1970, plus (2) Credited service under any prior plan if service extended to July 1, 1970. For the period beginning on or after January 1, 1976, the number of full years of service.
Cash balance pay	Pay received during the year, including base pay, overtime, shift differential/Sunday premium pay and incentive pay, subject to IRS limits
Final average pay	Highest average annual earnings (base pay only) during any 36 consecutive months in the 120 months before retirement. Any changes in earnings within the last three months before retirement will not be taken into account.
Normal retirement date (NRD)	The first day of the calendar month on or following the member's 65 th birthday.

Cash balance account Recordkeeping account to which annual interest credits and annual company credits are credited. The cash balance account is updated at the end of each plan year and is equal to:

$$\begin{aligned}
 &\text{Cash Balance Account as of the} \\
 &\text{end of the prior plan year} \\
 &+ \\
 &\text{Interest Credits} \\
 &+ \\
 &\text{Company Credits}
 \end{aligned}$$

Cash balance benefit Cash Balance Account converted to a monthly annuity

Interest credits Interest credits are applied to beginning of year account balance on December 31 each year.

Based on the average 30-year Treasury Bond rate for November of the previous year.

Minimum of 4%.

Company credits Applied to account balance on December 31 or termination date if earlier.

Amount is a percentage of eligible pay received during the year, based on age plus years of Vesting Service (age and service in completed whole years as of December 31).

<i>Age Plus Years of Service</i>	<i>Annual Company Credit</i>
Less than 30	3.0%
30 – 39	3.5%
40 – 49	4.5%
50 – 59	5.5%
60 – 69	7.0%
70+	8.5%

Monthly Grandfathered Benefit Greater of (1) or (2) below with automatic cost of living adjustments upon retirement:

(1) Basic benefit — An annual amount equal to:

The aggregate of a participant's (a) earned benefit (if any) under any prior plan or acquired Company pension plan under which no election was made to receive a paid-up annuity; and (b) participant contributions without interest for the period commencing on or after July 1, 1970. For the period after September 1, 1980, participants will be deemed to have made contributions at the rate of 2% annually of the participant's annual rate of earnings as of January 1.

(2) Minimum benefit:

1-2/3% of final average annual earnings less 50% of participant's annual primary Social Security benefit times years of credited service up to 30 years.

Minimum benefits	The benefit payable will never be less than the frozen accrued benefit as of July 1, 1997, under the prior plan.
Primary Social Security benefit	<p>The annual amount payable under the Social Security Act as amended in effect at the employee's date of retirement. The date as of which the amount is to be determined is:</p> <ol style="list-style-type: none"> (1) In the case of an employee (including deferred vested employees) retiring on or after normal retirement date, normal retirement date. (2) In the case of an employee retiring prior to normal retirement date, the later of employee's 62nd birthday or actual retirement date. <p>Early retirees and deferred vested employees are assumed to have no earnings after termination in determining the amount of this benefit.</p>
Long-term disability and paid leaves	Participants do not receive company credits while on long-term disability. For the grandfathered formula, the final average pay will be determined as of the date on which the participant became disabled. Vesting service continues.
Unpaid leave	No compensation for annual compensation credit. Vesting service continues.

Eligibility for Benefits

Normal retirement	All members at or after their Normal Retirement Date
Early retirement	Any time after attainment of age 55 and completion of five years of vesting
Postponed retirement	Retirement after NRD.
Vested	<p>The participant's cash balance account is 100% vested when any one of the following applies:</p> <ol style="list-style-type: none"> (1) Three years of vesting service (2) Attainment of age 55 while an employee (3) Death prior to termination (4) Upon disability.
Disability	All participants who become permanently and totally disabled. Permanent and total disability is determined by reference to the LTD plan covering that participant.
Surviving spouse	The surviving spouse of a participant who retired or is eligible to retire on normal or early retirement.
Preretirement death	Beneficiary of participant who dies after becoming vested.

Benefits Paid Upon the Following Events

Normal retirement Grandfathered employees must elect either the cash balance or the grandfathered formula. For purposes of this valuation, the employee is assumed to elect the formula with the higher present value. Employees with a prior plan frozen benefit get the better of the cash balance benefit and the prior plan frozen benefit. For all other employees, the Cash Balance Benefit is determined as of Normal Retirement Date.

Early retirement Greater of (1) if applicable or (2):

(1) The grandfathered accrued benefit and the prior plan frozen are payable subject to reduction according to the following schedule if payments commence prior to the normal retirement date.

<i>Age at Retirement</i>	<i>Percent of Benefit Payable</i>
64	100%
63	100%
62	100%
61	95%
60	90%
59	84%
58	78%
57	72%
56	66%
55	60%

(2) The Cash Balance Benefit determined as of the Early Retirement Date.

Deferred vested retirement Greater of (1) if applicable or (2):

(1) Grandfathered accrued benefit payable at age 65, or if earlier reduced 5% per year from age 65, 6% per year from age 60 and 7.5% per year compounded from age 55.

(2) Vested cash balance account.

Disability retirement The greatest of grandfathered accrued benefit, if eligible, based on projected service and frozen pay deferred to age 65, prior plan frozen benefit if eligible and cash balance account with continued pay credits.

Preretirement death If the beneficiary is the spouse and the participant is a grandfathered/protected plan participant, then:

(1) For an active participant who dies on or after 55th birthday but before retirement, a monthly benefit equal to 50% of the benefit accrued to the date of death without reduction for early retirement is payable immediately as a life annuity to a qualifying spouse.

(2) For an active participant who dies after completing five or more years of vesting service but before age 55, a deferred monthly benefit equal to 50% of the benefit accrued to the date of death reduced as for early retirement is payable as a life annuity to a

qualifying spouse. Benefit commencement is deferred to when the deceased participant would have attained age 55.

- (3) For a deferred vested participant who dies before benefits commence, a monthly benefit equal to 50% of the deferred vested benefit reduced for early commencement (as for deferred vested) is payable as a life annuity to a qualifying spouse. If death occurs before age 55, the benefit to the spouse is deferred to when the deceased participant would have attained age 55.

The spouse's benefit is actuarially reduced for each year by which the spouse is more than five years younger than the participant.

For all employees, the minimum benefit is the cash balance account immediate annuity, which is also payable if the beneficiary is not the participant's spouse.

Other Plan Provisions

Form of payment

The following are available for those participants who did not work an hour of service on or after January 1, 2003:

- Full lump sum payment.
- Monthly payment:
 - Single life annuity.
 - 50% joint annuity (spouse or other beneficiary).

A one-time option to elect a lump sum of the accrued benefit for terminated vested participants whose benefit was determined in no way by reference to either the AEP or CSW cash balance formulas was offered during the period from May 1, 2012 through June 30, 2012. Participants eligible for the window were also permitted to elect any of the other optional forms of payment generally applicable to such a participant under the normal terms of the plan document. Any participant who elected to commence benefits under this window, regardless of lump sum or annuity election, had a benefit commencement date of August 1, 2012.

The following are available for those participants who work an hour of service on or after January 1, 2003:

- Full lump sum payment.
- Combination of partial lump sum (25%, 50% or 75% of full lump sum) with remainder paid as a monthly benefit (see below).
- Monthly payment:
 - Single life annuity.
 - Joint annuities (spouse or other beneficiary).
 - Available in 50%, 75%, 100%.

Form of payment conversion for non-417(e) covered conversions

● Cash balance	7.50% interest and the applicable 417(e) Mortality Table
● Grandfathered benefit	Factors as specified in Tables I, II, III and IV of Exhibit A to the American Electric Power System Retirement Plan document. 7.50% interest and the 1951 Group Annuity male mortality table to the extent not covered by Tables I, II, III and IV.
Pension Increases	None.
Member Contributions	None.
Maximum on benefits and pay	All benefits and pay for any calendar year may not exceed the maximum limitations for that year as defined in the Internal Revenue Code. The plan provides for increasing the dollar limits automatically as such changes become effective. Increases in the dollar limits are assumed for determining pension cost but not for determining contributions.
Plan status	Continuing accruals. All new entrants to plan are covered under former East plan provision.

Future Plan Changes

Towers Watson is not aware of any future plan changes that are required to be reflected.

Changes in Benefits Valued Since Prior Year

None.

Appendix C: Adjusted Funding Target Attainment Percentage (AFTAP)

American Electric Power retained Towers Watson Delaware Inc. ("Towers Watson") to perform a valuation of its pension plan for the purpose of measuring the plan's AFTAP for the plan year beginning January 1, 2015 in accordance with ERISA and the Internal Revenue Code. This valuation has been conducted in accordance with generally accepted actuarial principles and practices.

The enrolled actuary making this certification is a member of the Society of Actuaries and other professional actuarial organizations and meets their "Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States."

We hereby certify that the plan's AFTAP for the plan year beginning January 1, 2015 is 130.07%. This percentage is based on the assumptions, participant data, and plan provisions we relied upon to prepare these results shown in this report, reflects the valuation limitations discussed in this report and is also based on the following additional information:

Annuity Purchases

American Electric Power's representation that there were no annuity purchases made on behalf of non-highly compensated employees by the plan in the plan years beginning in 2013 and 2014.

Funding Balances

Our understanding is that American Electric Power has not elected to reduce the plan's funding balance as of the first day of the 2015 plan year.

Our understanding is that the plan is not subject to a deemed election to reduce the funding balances in 2015.

Our understanding is that American Electric Power has not elected to apply any of the plan's funding balances to the 2015 minimum required contribution.

Our understanding is that American Electric Power has not elected to increase the prefunding balance as of the first day of the 2015 plan year.

Contributions

Our understanding is that American Electric Power has not made any employer contributions after December 31, 2014 and before April 30, 2015 for the 2014 plan year.

Subsequent Events

There were no plan amendments that took effect in the current plan year that were taken into account for the current plan year's AFTAP certification.

There were no UCEBs that took effect in the current plan year that were taken into account for the current plan year's AFTAP certification.

There were no previously suspended accruals restored during the current plan year that were taken into account for the current plan year's AFTAP certification.

Elections

Our understanding of sponsor elections required under the Pension Protection Act of 2006 (PPA), with respect to interest rates, Actuarial Value of Assets and other methods and/or assumptions, as confirmed in the Sponsor's letter dated April 22, 2015.

In making this certification, we relied on asset, contribution, funding balance election, and annuity purchase information provided by the Company, including dates and amounts of contributions made to the plan through the date of this certification, dates and amounts of funding balance elections by the Company through the date of this certification, and amounts of annuity purchases in the past two years, as shown above. We have reviewed this information for overall reasonableness and consistency but, consistent with the scope of our engagement, have neither audited nor independently verified this information. We do not certify to the accuracy or completeness of asset, contribution, funding balance election and annuity purchase information, and this certification relies on and is contingent on the accuracy and completeness of this information.

The development of the AFTAP is shown below:

All monetary amounts shown in US Dollars

Plan Year Beginning	01/01/2015
Actuarial value of assets as of January 1, 2015 ¹	5,126,953,429
Funding standard carryover balance at January 1, 2015 ²	160,373,510
Prefunding balance at January 1, 2015 ²	568,404,791
Funding target (disregarding at-risk assumptions)	3,941,682,464
AVA/funding target (disregarding at-risk assumptions)	130.07%
Assets for AFTAP calculation ³	5,126,953,429
Annuity purchases for NHCEs during 2013 and 2014	0
Reflection of Post-Valuation Date Events not Previously Reflected	
Increase in funding target (disregarding at-risk assumptions) for 2015 amendments/UCEBs/restored accruals ⁴	0
IRC §436 contributions made to enable plan amendments/UCEBs/restored accruals to take effect ⁵	0
Adjusted funding target, disregarding at-risk assumptions, (includes NHCE annuity purchases and amendments)	0
Adjusted assets (includes NHCE annuity purchases and IRC §436 contributions)	0
Specific AFTAP	
Adjusted Funding Target Attainment Percentage (AFTAP)	130.07%

¹ Reflects discounted contributions made for the 2014 plan year only if paid on or before the certification date. Includes security posted by the beginning of the plan year in the form of a bond or cash held in escrow.

² Reflects elections made to-date (other than elections to apply the funding balances to 2015 MRC).

³ AVA if AVA/Funding Target (disregarding at-risk assumptions) >=100%; otherwise (AVA-funding balances).

⁴ If amendments/UCEBs/restored accruals (i) went into effect before this specific certification, (ii) were not reflected in the funding valuation and (iii) require AFTAP recertification, or if AFTAP recertification is not required but the plan sponsor decides to reflect the amendment/UCEBs/restored accruals in the specific AFTAP certification.

⁵ Discounted to January 1, 2015 using the 2015 plan year effective interest rate

Immediate Implications of AFTAP Certification

We believe that the certified AFTAP of 130.07% for the 2015 plan year has the following implications for benefit limitations described in IRC §436. American Electric Power should review these conclusions with ERISA counsel:

Benefit accruals called for under the plan without regard to IRC §436 must continue.

Accelerated distributions called for under the plan without regard to IRC §436 must continue in full.

Amendments that increase benefits must be evaluated at the time they would take effect to determine if they are permissible.

Plant shutdown and other unpredictable UCEBs must be evaluated at the time they would take effect to determine if they are permissible.

Implications of 2015 AFTAP for Presumptions in Next Plan Year

Because the AFTAP for the 2015 plan year is at least 90%, the presumed AFTAP for 2016 will remain equal to the 2015 certified AFTAP, and changes in benefit restrictions will not occur, before the 2016 AFTAP is certified, provided that the 2016 AFTAP is certified before the first day of the tenth month of the plan year.

Note, however, that adoption of plan amendments and/or payment of UCEBs may change this result.

Appendix D: Results by business unit

Unless otherwise indicated, the data, assumptions, methods, data and plan provisions upon which the figures in this Appendix D rely are consistent with those indicated throughout the rest of the report.

Summary of key assumptions for Appendix D of 2015 AEP Retirement 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%
PPA effective interest rate	6.15%	6.02%	5.83%	5.33%	4.88%	4.46%	4.06%	3.96%	3.89%	3.82%	3.77%
Expected return on assets	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%	6.00%
Cash balance crediting rate	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%	4.00%
Lump sum conversion rate	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%	5.00%

Mortality table	RP-2014, factored to 2006, no collar adjustment
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.
Retirement rates	Age-graded rates based on AEP experience during 2009-2013, average retirement age of 64.
Termination rates	Age and service based rates based on AEP experience during 2009-2013.
Salary increases	Age-graded rates based on AEP experience during 2011-2013, with average annual increase of 4.8%.
Valuation and data	January 1, 2015

**AMERICAN ELECTRIC POWER
 QUALIFIED RETIREMENT PLAN
 SUMMARY OF PLAN PARTICIPANTS FOR THE 2015 VALUATION**

Location	Vested Actives	Non-Vested Actives	Total Actives	Retirees Receiving Benefits	Beneficiaries	Deferred Vesteds	Total Inactive	Total Participants
140 Appalachian Power Co - Distribution	987	54	1,041	1,091	384	165	1,640	2,681
215 Appalachian Power Co - Generation	875	5	880	757	226	77	1,060	1,940
150 Appalachian Power Co - Transmission	12	0	12	115	16	14	145	157
Appalachian Power Co. - FERC	1,874	59	1,933	1,963	626	256	2,845	4,778
225 Cedar Coal Co	0	0	0	87	33	13	133	133
Appalachian Power Co. - SEC	1,874	59	1,933	2,050	659	269	2,978	4,911
211 AEP Texas Central Company - Distribution	811	81	892	845	249	319	1,413	2,305
147 AEP Texas Central Company - Generation	0	0	0	0	43	0	43	43
169 AEP Texas Central Company - Transmission	92	20	112	68	31	35	134	246
AEP Texas Central Co.	903	101	1,004	913	323	354	1,590	2,594
170 Indiana Michigan Power Co - Distribution	542	19	561	615	252	94	961	1,522
132 Indiana Michigan Power Co - Generation	360	10	370	279	85	83	447	817
190 Indiana Michigan Power Co - Nuclear	1,031	98	1,129	363	59	287	709	1,838
120 Indiana Michigan Power Co - Transmission	117	12	129	103	14	10	127	256
280 Ind Mich River Transp Lakin	229	26	255	115	38	56	209	464
Indiana Michigan Power Co. - FERC	2,279	165	2,444	1,475	448	530	2,453	4,897
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	2,279	165	2,444	1,475	448	530	2,453	4,897
110 Kentucky Power Co - Distribution	238	11	249	184	60	29	273	522
117 Kentucky Power Co - Generation	84	0	84	96	22	12	130	214
180 Kentucky Power Co - Transmission	1	1	2	10	1	4	15	17
600 Kentucky Power Co. - Kammer Actives	39	0	39	0	0	2	2	41
701 Kentucky Power Co. - Mitchell Actives	232	0	232	0	0	0	0	232
702 Kentucky Power Co. - Mitchell Inactives	0	0	0	100	14	9	123	123
Kentucky Power Co.	594	12	606	390	97	56	543	1,149
250 Ohio Power Co - Distribution	1,401	82	1,483	1,622	491	237	2,350	3,833
160 Ohio Power Co - Transmission	12	2	14	197	58	17	272	286
Ohio Power Co	1,413	84	1,497	1,819	549	254	2,622	4,119
167 Public Service Co of Oklahoma - Distribution	585	51	636	420	178	132	730	1,366
198 Public Service Co of Oklahoma - Generation	337	28	365	166	64	56	286	651
114 Public Service Co of Oklahoma - Transmission	74	17	91	46	19	15	80	171
Public Service Co. of Oklahoma	996	96	1,092	632	261	203	1,096	2,188
159 Southwestern Electric Power Co - Distribution	477	22	499	170	88	54	312	811
168 Southwestern Electric Power Co - Generation	550	53	603	171	86	45	302	905
161 Southwestern Electric Power Co - Texas - Distribution	218	16	234	94	36	37	167	401
111 Southwestern Electric Power Co - Texas - Transmission	0	0	0	0	3	0	3	3
194 Southwestern Electric Power Co - Transmission	70	16	86	31	13	11	55	141
Southwestern Electric Power Co.	1,315	107	1,422	466	226	147	839	2,261
119 AEP Texas North Company - Distribution	235	15	250	161	75	78	314	564
166 AEP Texas North Company - Generation	0	0	0	92	45	30	167	167
192 AEP Texas North Company - Transmission	45	12	57	23	11	4	38	95
AEP Texas North Co.	280	27	307	276	131	112	519	826
230 Kingsport Power Co - Distribution	47	3	50	45	16	3	64	114
260 Kingsport Power Co - Transmission	1	0	1	9	1	1	11	12
Kingsport Power Co.	48	3	51	54	17	4	75	126
210 Wheeling Power Co - Distribution	44	2	46	54	26	5	85	131
200 Wheeling Power Co - Transmission	0	0	0	3	7	0	10	10
Wheeling Power Co.	44	2	46	57	33	5	95	141
103 American Electric Power Service Corporation	4,779	531	5,310	2,512	455	1,271	4,238	9,548
American Electric Power Service Corp	4,779	531	5,310	2,512	455	1,271	4,238	9,548
143 AEP Pro Serv, Inc.	0	0	0	1	0	2	3	3
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	0	0	0	3	1	29	33	33
Miscellaneous	0	0	0	4	1	31	36	36
270 Cook Coal Terminal	12	8	20	13	3	1	17	37
AEP Generating Company	12	8	20	13	3	1	17	37
104 Cardinal Operating Company	291	1	292	183	49	16	248	540
181 Ohio Power Co - Generation	630	0	630	1,215	382	206	1,803	2,433
AEP Generation Resources - FERC	921	1	922	1,398	431	222	2,051	2,973
290 Conesville Coal Preparation Company	0	0	0	12	1	2	15	15
AEP Generation Resources - SEC	921	1	922	1,410	432	224	2,066	2,988
175 AEP Energy Partners	79	3	82	0	0	0	0	82
AEP Energy Supply	1,000	4	1,004	1,410	432	224	2,066	3,070
293 Elmwood	70	5	75	6	0	15	21	96
292 AEP River Operations LLC	831	95	926	10	0	158	168	1,094
AEP River Operations	901	100	1,001	16	0	173	189	1,190
Total	16,438	1,299	17,737	12,087	3,635	3,634	19,356	37,093

American Electric Power System Retirement Plan

AMERICAN ELECTRIC POWER - QUALIFIED RETIREMENT PLAN
FUNDED STATUS OF PRESENT VALUE OF ACCUMULATED PLAN BENEFITS (ASC 960) AS OF JANUARY 1, 2015

Location	Present Value of Vested Benefits	Present Value of Non-Vested Benefits	Present Value of Accumulated Plan Benefits	Market Value of Assets	Percent Funded
140 Appalachian Power Co - Distribution	\$280,549,819	\$1,394,683	\$281,944,502	\$327,135,782	116.0%
215 Appalachian Power Co - Generation	234,060,411	762,702	234,823,113	277,925,329	118.4%
150 Appalachian Power Co - Transmission	26,887,824	15,751	26,903,575	23,630,521	87.8%
Appalachian Power Co. - FERC	\$541,498,054	\$2,173,136	\$543,671,190	\$628,691,632	115.6%
225 Cedar Coal Co	2,842,887	0	2,842,887	4,864,306	171.1%
Appalachian Power Co. - SEC	\$544,340,941	\$2,173,136	\$546,514,077	\$633,555,938	115.9%
211 AEP Texas Central Company - Distribution	\$239,963,783	\$452,911	\$240,416,694	\$289,366,185	120.4%
147 AEP Texas Central Company - Generation	3,117,420	0	3,117,420	11,532,571	369.9%
169 AEP Texas Central Company - Transmission	23,316,369	81,627	23,397,996	27,218,069	116.3%
AEP Texas Central Co.	\$266,397,572	\$534,538	\$266,932,110	\$328,116,825	122.9%
170 Indiana Michigan Power Co - Distribution	\$139,996,285	\$476,873	\$140,473,158	\$169,153,433	120.4%
132 Indiana Michigan Power Co - Generation	95,417,706	341,054	95,758,760	112,043,619	117.0%
190 Indiana Michigan Power Co - Nuclear	183,669,516	1,036,498	184,706,014	235,641,253	127.6%
120 Indiana Michigan Power Co - Transmission	32,303,536	157,256	32,460,792	35,439,887	109.2%
280 Ind Mich River Transp Lakin	26,675,779	173,834	26,849,613	35,671,734	132.9%
Indiana Michigan Power Co. - FERC	\$478,062,822	\$2,185,515	\$480,248,337	\$587,949,926	122.4%
202 Price River Coal	0	0	0	0	0.0%
Indiana Michigan Power Co. - SEC	\$478,062,822	\$2,185,515	\$480,248,337	\$587,949,926	122.4%
110 Kentucky Power Co - Distribution	\$62,289,600	\$250,036	\$62,539,636	\$70,643,463	113.0%
117 Kentucky Power Co - Generation	29,663,301	184,628	29,847,929	32,880,122	110.2%
180 Kentucky Power Co - Transmission	2,902,059	2,058	2,904,117	1,945,303	67.0%
600 Kentucky Power Co. - Kammer Actives	4,874,380	25,293	4,899,673	6,508,386	132.8%
701 Kentucky Power Co. - Mitchell Actives	23,226,220	359,339	23,585,559	36,197,184	153.5%
702 Kentucky Power Co. - Mitchell Inactives	23,109,055	0	23,109,055	32,603,677	141.1%
Kentucky Power Co.	\$146,064,615	\$821,354	\$146,885,969	\$180,778,135	123.1%
250 Ohio Power Co - Distribution	\$374,220,821	\$1,106,110	\$375,326,931	\$453,537,019	120.8%
160 Ohio Power Co - Transmission	42,186,128	23,359	42,209,487	44,747,511	106.0%
Ohio Power Co	\$416,406,949	\$1,129,469	\$417,536,418	\$498,284,530	119.3%
167 Public Service Co of Oklahoma - Distribution	\$135,439,927	\$330,242	\$135,770,169	\$167,345,769	123.3%
198 Public Service Co of Oklahoma - Generation	68,050,396	193,217	68,243,613	85,745,444	125.6%
114 Public Service Co of Oklahoma - Transmission	16,144,903	64,519	16,209,422	21,176,326	130.6%
Public Service Co. of Oklahoma	\$219,635,226	\$587,978	\$220,223,204	\$274,267,539	124.5%
159 Southwestern Electric Power Co - Distribution	\$82,148,778	\$187,994	\$82,336,772	\$105,787,932	128.5%
168 Southwestern Electric Power Co - Generation	93,612,611	482,904	94,095,515	114,975,910	122.2%
161 Southwestern Electric Power Co - Texas - Distributic	43,869,049	129,516	43,998,565	52,563,146	119.5%
111 Southwestern Electric Power Co - Texas - Transmis:	131,089	0	131,089	66,826	51.0%
194 Southwestern Electric Power Co - Transmission	11,719,656	49,199	11,768,855	16,970,011	144.2%
Southwestern Electric Power Co.	\$231,481,183	\$849,613	\$232,330,796	\$290,363,825	125.0%
119 AEP Texas North Company - Distribution	\$58,757,162	\$116,847	\$58,874,009	\$68,586,436	116.5%
166 AEP Texas North Company - Generation	17,934,771	0	17,934,771	26,057,603	145.3%
192 AEP Texas North Company - Transmission	8,445,068	29,406	8,474,474	10,888,381	128.5%
AEP Texas North Co.	\$85,137,001	\$146,253	\$85,283,254	\$105,532,420	123.7%
230 Kingsport Power Co - Distribution	\$11,423,385	\$16,462	\$11,439,847	\$13,569,529	118.6%
260 Kingsport Power Co - Transmission	2,079,046	0	2,079,046	1,843,311	88.7%
Kingsport Power Co.	\$13,502,431	\$16,462	\$13,518,893	\$15,412,840	114.0%
210 Wheeling Power Co - Distribution	\$13,873,545	\$30,497	\$13,904,042	\$16,306,431	117.3%
200 Wheeling Power Co - Transmission	602,657	0	602,657	913,068	151.5%
Wheeling Power Co.	\$14,476,202	\$30,497	\$14,506,699	\$17,219,499	118.7%
103 American Electric Power Service Corporation	\$1,256,355,717	\$8,719,533	\$1,265,075,250	\$1,484,234,295	117.3%
American Electric Power Service Corp	\$1,256,355,717	\$8,719,533	\$1,265,075,250	\$1,484,234,295	117.3%
143 AEP Pro Serv, Inc.	\$932,577	\$0	\$932,577	\$1,070,218	114.8%
189 Central Coal Company	0	0	0	0	0.0%
171 CSW Energy, Inc.	2,291,538	0	2,291,538	2,592,450	113.1%
Miscellaneous	\$3,224,115	\$0	\$3,224,115	\$3,662,668	113.6%
270 Cook Coal Terminal	\$3,009,130	\$42,086	\$3,051,216	\$4,200,874	137.7%
AEP Generating Company	\$3,009,130	\$42,086	\$3,051,216	\$4,200,874	137.7%
104 Cardinal Operating Company	\$66,508,761	\$325,611	\$66,834,372	\$92,978,316	139.1%
181 Ohio Power Co - Generation	258,161,987	547,055	258,709,042	386,137,157	149.3%
AEP Generation Resources - FERC	\$324,670,748	\$872,666	\$325,543,414	\$479,115,473	147.2%
290 Conesville Coal Preparation Company	2,864,566	0	2,864,566	4,606,187	160.8%
AEP Generation Resources - SEC	\$327,535,314	\$872,666	\$328,407,980	\$483,721,660	147.3%
175 AEP Energy Partners	5,704,623	184,066	5,888,689	7,630,683	129.6%
AEP Energy Supply	\$333,239,937	\$1,056,732	\$334,296,669	\$491,352,343	147.0%
293 Elmwood	\$2,453,521	\$36,170	\$2,489,691	\$5,358,268	215.2%
292 AEP River Operations LLC	30,672,816	462,955	31,135,771	55,574,324	178.5%
AEP River Operations	\$33,126,337	\$499,125	\$33,625,462	\$60,932,592	181.2%
Total	\$4,044,460,178	\$18,792,291	\$4,063,252,469	\$4,975,864,249	122.5%

AMERICAN ELECTRIC POWER - QUALIFIED RETIREMENT PLAN
 SUMMARY OF ASC 715-30 VALUATION RESULTS AS OF JANUARY 1, 2015

Location	Valuation Earnings	Market-Related Value of Assets	Fair Value of Assets	Accumulated Benefit Obligation	Projected Benefit Obligation	January 1, 2015 Pre-Tax AOCI
140 Appalachian Power Co - Distribution	\$91,109,597	\$308,693,918	\$327,135,782	\$345,247,203	\$351,058,538	\$120,461,634
215 Appalachian Power Co - Generation	79,027,572	262,257,642	277,925,329	288,157,162	293,728,982	82,086,617
150 Appalachian Power Co - Transmission	835,513	22,298,380	23,630,521	32,165,265	32,189,260	17,011,327
Appalachian Power Co. - FERC	\$170,972,682	\$593,249,940	\$628,691,632	\$665,569,630	\$676,976,780	\$219,559,578
225 Cedar Coal Co	0	4,590,087	4,864,306	3,310,443	3,310,443	2,178,043
Appalachian Power Co. - SEC	\$170,972,682	\$597,840,027	\$633,555,938	\$668,880,073	\$680,287,223	\$221,737,621
211 AEP Texas Central Company - Distribution	\$77,212,922	\$273,053,534	\$289,366,185	\$286,859,647	\$295,386,551	\$129,316,725
147 AEP Texas Central Company - Generation	0	10,882,437	11,532,571	3,552,535	3,552,535	(7,980,036)
169 AEP Texas Central Company - Transmission	10,081,186	25,683,685	27,218,069	27,929,188	29,012,907	17,316,416
AEP Texas Central Co.	\$87,294,108	\$309,619,656	\$328,116,825	\$318,341,370	\$327,951,993	\$138,653,105
170 Indiana Michigan Power Co - Distribution	\$49,542,278	\$159,617,623	\$169,153,433	\$171,030,450	\$175,731,246	\$55,387,206
132 Indiana Michigan Power Co - Generation	34,439,225	105,727,302	112,043,619	118,516,746	120,069,093	29,595,385
190 Indiana Michigan Power Co - Nuclear	119,762,707	222,357,277	235,641,253	233,096,597	243,326,723	35,914,953
120 Indiana Michigan Power Co - Transmission	11,667,887	33,442,008	35,439,887	39,852,175	40,926,437	12,846,390
280 Ind Mich River Transp Lakin	18,323,643	33,660,785	35,671,734	33,284,172	35,499,886	5,499,636
Indiana Michigan Power Co. - FERC	\$233,735,740	\$554,804,995	\$587,949,926	\$595,780,140	\$615,553,385	\$139,243,570
202 Price River Coal	0	0	0	0	0	389,803
Indiana Michigan Power Co. - SEC	\$233,735,740	\$554,804,995	\$587,949,926	\$595,780,140	\$615,553,385	\$139,633,373
110 Kentucky Power Co - Distribution	\$21,800,767	\$66,661,028	\$70,643,464	\$77,187,409	\$78,395,526	\$21,941,488
117 Kentucky Power Co - Generation	7,605,673	31,026,547	32,880,122	36,873,856	37,126,896	10,308,642
180 Kentucky Power Co - Transmission	124,911	1,835,639	1,945,303	3,519,720	3,522,228	24,250,079
600 Kentucky Power Co. - Kammer Actives	3,304,763	6,141,484	6,508,386	6,275,468	6,374,749	3,295,769
701 Kentucky Power Co. - Mitchell Actives	21,085,049	34,156,614	36,197,184	30,879,105	32,422,959	10,715,310
702 Kentucky Power Co. - Mitchell Inactives	\$0	\$30,765,686	\$32,603,677	\$27,728,122	\$27,728,122	\$8,419,444
Kentucky Power Co.	\$53,921,163	\$170,586,998	\$180,778,136	\$182,463,680	\$185,570,480	\$57,204,732
250 Ohio Power Co - Distribution	\$123,891,573	\$427,969,446	\$453,537,019	\$455,160,852	\$468,396,274	\$188,698,267
160 Ohio Power Co - Transmission	1,083,960	42,224,927	44,747,511	49,813,017	49,861,262	30,672,090
Ohio Power Co	\$124,975,533	\$470,194,373	\$498,284,530	\$504,973,869	\$518,257,536	\$219,370,357
167 Public Service Co of Oklahoma - Distribution	\$55,599,050	\$157,911,864	\$167,345,769	\$161,986,921	\$168,734,498	\$63,957,427
198 Public Service Co of Oklahoma - Generation	33,991,177	80,911,654	85,745,445	81,435,084	84,762,890	24,250,732
114 Public Service Co of Oklahoma - Transmission	8,546,932	19,982,538	21,176,326	19,407,684	20,400,941	6,035,451
Public Service Co. of Oklahoma	\$98,137,159	\$258,806,056	\$274,267,540	\$262,829,689	\$273,898,329	\$94,243,610
159 Southwestern Electric Power Co - Distribution	\$43,670,385	\$99,824,272	\$105,787,932	\$98,957,973	\$104,781,215	\$38,459,403
168 Southwestern Electric Power Co - Generation	55,570,341	108,494,289	114,975,910	112,995,302	117,748,236	35,449,003
161 Southwestern Electric Power Co - Texas - Distribution	20,138,799	49,599,965	52,563,146	52,775,507	54,899,310	22,243,621
111 Southwestern Electric Power Co - Texas - Transmission	0	63,059	66,827	143,141	143,141	922,534
194 Southwestern Electric Power Co - Transmission	7,967,530	16,013,348	16,970,011	14,303,483	15,313,380	3,910,906
Southwestern Electric Power Co.	\$127,347,055	\$273,994,933	\$290,363,826	\$279,175,406	\$292,885,282	\$100,985,467
119 AEP Texas North Company - Distribution	\$21,989,394	\$64,719,963	\$68,586,436	\$69,699,433	\$71,420,300	\$32,039,212
166 AEP Texas North Company - Generation	0	24,588,639	26,057,603	20,903,260	20,903,260	14,767,750
192 AEP Texas North Company - Transmission	5,138,752	10,274,562	10,888,380	10,130,344	10,693,513	3,735,379
AEP Texas North Co.	\$27,128,146	\$99,583,164	\$105,532,419	\$100,733,037	\$103,017,073	\$50,542,341
230 Kingsport Power Co - Distribution	\$4,125,434	\$12,804,564	\$13,569,529	\$14,066,684	\$14,386,225	\$4,940,838
260 Kingsport Power Co - Transmission	75,435	1,739,397	1,843,312	2,462,074	2,465,526	1,420,398
Kingsport Power Co.	\$4,200,869	\$14,543,961	\$15,412,841	\$16,528,758	\$16,851,751	\$6,361,236
210 Wheeling Power Co - Distribution	\$3,872,037	\$15,387,177	\$16,306,432	\$16,943,022	\$17,194,680	\$7,343,703
200 Wheeling Power Co - Transmission	0	861,595	913,068	668,137	668,137	605,457
Wheeling Power Co.	\$3,872,037	\$16,248,772	\$17,219,500	\$17,611,159	\$17,862,817	\$7,949,160
103 American Electric Power Service Corporation	\$556,940,062	\$1,400,562,474	\$1,484,234,291	\$1,556,057,361	\$1,612,604,154	\$413,219,241
American Electric Power Service Corp	\$556,940,062	\$1,400,562,474	\$1,484,234,291	\$1,556,057,361	\$1,612,604,154	\$413,219,241
143 AEP Pro Serv, Inc.	\$0	\$1,009,886	\$1,070,218	\$1,174,069	\$1,174,069	\$34,077
189 Central Coal Company	0	0	0	0	0	3,979
171 CSW Energy, Inc.	0	2,446,304	2,592,450	2,834,687	2,834,687	1,105,095
Miscellaneous	\$0	\$3,456,190	\$3,662,668	\$4,008,756	\$4,008,756	\$1,143,151
270 Cook Coal Terminal	\$1,756,288	\$3,964,055	\$4,200,874	\$3,778,943	\$3,884,252	\$318,035
AEP Generating Company	\$1,756,288	\$3,964,055	\$4,200,874	\$3,778,943	\$3,884,252	\$318,035
104 Cardinal Operating Company	\$25,463,797	\$87,736,782	\$92,978,316	\$82,175,849	\$84,002,924	(\$8,975,392)
181 Ohio Power Co - Generation	57,387,209	364,369,166	386,137,157	313,278,376	317,812,462	106,978,314
AEP Generation Resources - FERC	\$82,851,006	\$452,105,948	\$479,115,473	\$395,454,225	\$401,815,386	\$98,002,922
290 Conesville Coal Preparation Company	0	4,346,519	4,606,187	3,439,301	3,439,301	323,208
AEP Generation Resources - SEC	\$82,851,006	\$456,452,467	\$483,721,660	\$398,893,526	\$405,254,687	\$98,326,130
175 AEP Energy Partners	11,332,028	7,200,513	7,630,683	8,303,093	10,132,110	4,760,953
AEP Energy Supply	\$94,183,034	\$463,652,980	\$491,352,343	\$407,196,619	\$415,386,797	\$103,087,083
293 Elmwood	\$4,166,015	\$5,056,202	\$5,358,268	\$3,114,514	\$3,469,024	(\$2,042,044)
292 AEP River Operations LLC	75,980,561	52,441,392	55,574,324	40,076,145	49,725,706	(5,324,514)
AEP River Operations	\$80,146,576	\$57,497,594	\$60,932,592	\$43,190,659	\$53,194,730	(\$7,366,558)
Total	\$1,664,610,452	\$4,695,356,228	\$4,975,864,249	\$4,961,549,519	\$5,121,214,558	\$1,547,081,954

American Electric Power System Retirement Plan

Location	Estimated Net Periodic Pension Cost										
	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
140 Appalachian Power Co - Distribution	\$7,568,004	\$5,854,639	\$4,103,354	\$2,686,528	\$1,722,586	\$1,494,798	\$1,264,881	\$1,019,916	\$783,040	\$520,568	\$225,573
215 Appalachian Power Co - Generation	6,325,720	4,884,056	3,402,032	2,212,353	1,378,254	1,186,440	988,320	772,015	564,855	337,140	101,137
150 Appalachian Power Co - Transmission	617,077	472,499	(3,211)	(118,100)	(199,406)	(208,363)	(226,590)	(229,934)	(248,627)	(258,569)	(276,226)
Appalachian Power Co. - FERC	14,510,801	11,211,194	7,502,175	4,780,781	2,901,434	2,472,875	2,026,611	1,561,997	1,099,268	599,139	50,484
225 Cedar Coal Co	(74,436)	(91,678)	(109,027)	(120,228)	(128,855)	(129,125)	(129,480)	(130,220)	(131,174)	(132,304)	(133,963)
Appalachian Power Co. - SEC	14,436,365	11,119,516	7,393,148	4,660,553	2,772,579	2,343,750	1,897,131	1,431,777	968,094	466,835	(83,479)
211 AEP Texas Central Company - Distribution	6,960,285	5,484,267	3,732,683	2,540,420	1,691,024	1,459,452	1,231,679	1,033,665	803,558	566,888	327,710
147 AEP Texas Central Company - Generation	(429,997)	(453,687)	(477,946)	(491,785)	(501,992)	(502,298)	(499,624)	(499,016)	(499,920)	(499,445)	(501,201)
169 AEP Texas Central Company - Transmission	916,247	763,548	587,947	474,069	383,207	357,179	336,349	308,469	279,426	257,387	229,240
AEP Texas Central Co.	7,446,535	5,794,128	3,842,684	2,522,704	1,571,933	1,315,539	1,068,204	843,118	584,064	324,810	55,749
170 Indiana Michigan Power Co - Distribution	3,804,529	2,937,730	2,045,843	1,329,359	830,054	718,226	603,569	479,764	337,611	213,873	63,847
132 Indiana Michigan Power Co - Generation	2,884,902	2,296,844	1,687,452	1,190,754	838,980	760,622	673,317	577,851	480,533	390,240	291,601
190 Indiana Michigan Power Co - Nuclear	8,633,327	7,417,291	6,099,375	4,971,069	4,204,351	3,939,483	3,673,020	3,387,241	3,146,936	2,897,411	2,582,737
120 Indiana Michigan Power Co - Transmission	1,100,660	900,541	623,097	458,333	340,351	314,911	282,596	253,871	218,398	187,906	156,756
280 Ind Mich River Transp Lakin	1,074,810	908,258	716,939	553,112	442,135	399,891	375,314	340,885	307,176	269,105	230,550
Indiana Michigan Power Co. - FERC	17,498,228	14,460,664	11,172,706	8,502,627	6,655,871	6,133,133	5,607,816	5,039,612	4,490,654	3,958,535	3,325,491
202 Price River Coal	5	0	0	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	17,498,233	14,460,664	11,172,706	8,502,627	6,655,871	6,133,133	5,607,816	5,039,612	4,490,654	3,958,535	3,325,491
110 Kentucky Power Co - Distribution	1,906,268	1,532,295	1,091,305	770,436	543,466	495,222	437,187	383,659	325,763	266,277	197,183
117 Kentucky Power Co - Generation	769,217	588,941	368,650	221,920	118,964	100,420	73,175	55,085	23,610	1,398	(24,163)
180 Kentucky Power Co - Transmission	107,590	91,888	3,810	(10,472)	(19,383)	(20,409)	(21,522)	(25,955)	(24,404)	(26,134)	(28,208)
600 Kentucky Power Co. - Kammer Actives	197,279	171,306	137,214	107,544	85,873	79,563	71,747	66,321	51,752	51,542	45,010
701 Kentucky Power Co. - Mitchell Actives	1,039,584	924,994	746,057	586,491	480,420	439,915	401,649	362,669	322,021	269,734	238,834
702 Kentucky Power Co. - Mitchell Inactives	(161,426)	(298,899)	(436,372)	(513,850)	(602,628)	(607,503)	(621,599)	(620,814)	(630,389)	(642,056)	(658,890)
Kentucky Power Co.	3,858,512	3,010,525	1,910,664	1,144,069	606,712	487,208	340,637	220,965	68,353	(79,239)	(230,234)
250 Ohio Power Co - Distribution	9,609,740	7,286,907	4,923,023	3,038,866	1,728,767	1,414,264	1,130,687	795,074	479,273	139,739	(252,403)
160 Ohio Power Co - Transmission	525,197	288,565	4,933	(174,555)	(306,049)	(314,520)	(325,556)	(343,526)	(365,761)	(384,472)	(411,598)
Ohio Power Co.	10,134,937	7,575,472	4,927,956	2,864,311	1,420,718	1,099,762	805,131	451,548	113,512	(244,733)	(664,001)
167 Public Service Co of Oklahoma - Distribution	4,582,633	3,723,788	2,717,402	1,989,003	1,497,348	1,365,665	1,193,270	1,073,375	923,122	766,869	623,554
198 Public Service Co of Oklahoma - Generation	2,679,438	2,308,692	1,787,534	1,408,835	1,133,579	1,037,455	969,070	885,880	798,405	718,863	623,876
114 Public Service Co of Oklahoma - Transmission	612,406	531,065	402,337	319,127	258,146	234,706	219,206	193,964	179,777	156,783	134,716
Public Service Co. of Oklahoma	7,874,477	6,563,545	4,907,273	3,717,965	2,889,073	2,637,826	2,381,546	2,153,219	1,901,304	1,642,515	1,382,146
159 Southwestern Electric Power Co - Distribution	3,400,616	2,924,827	2,273,245	1,772,518	1,463,946	1,355,895	1,254,313	1,136,849	1,046,428	929,681	823,205
168 Southwestern Electric Power Co - Generation	4,530,389	3,929,626	3,182,704	2,637,377	2,249,543	2,128,067	1,962,544	1,846,171	1,716,134	1,587,962	1,463,769
161 Southwestern Electric Power Co - Texas - Distribution	1,778,441	1,501,134	1,155,100	918,270	753,188	696,503	653,721	592,607	548,372	494,707	445,637
111 Southwestern Electric Power Co - Texas - Transmission	4,505	3,897	(354)	(776)	(1,098)	(1,094)	(1,096)	(1,113)	(1,130)	(1,141)	(1,179)
194 Southwestern Electric Power Co - Transmission	486,065	432,321	333,315	260,276	212,488	190,244	174,914	157,019	142,502	124,008	111,282
Southwestern Electric Power Co.	10,200,016	8,791,805	6,944,010	5,587,665	4,678,407	4,367,615	4,044,396	3,731,533	3,450,295	3,135,199	2,842,659
119 AEP Texas North Company - Distribution	2,047,923	1,717,489	1,281,572	974,402	747,669	693,798	639,308	575,459	501,949	446,030	368,153
166 AEP Texas North Company - Generation	(209,431)	(318,994)	(421,349)	(490,526)	(544,555)	(548,065)	(551,467)	(558,875)	(563,253)	(577,800)	(581,864)
192 AEP Texas North Company - Transmission	389,249	343,461	276,082	225,726	191,929	174,972	167,766	156,348	140,510	127,412	117,474
AEP Texas North Co.	2,227,741	1,741,956	1,136,305	709,602	395,043	320,705	255,607	172,932	79,206	(3,638)	(96,237)
230 Kingsport Power Co - Distribution	343,830	272,588	200,018	141,072	99,691	90,945	81,051	69,547	55,838	46,350	32,892
260 Kingsport Power Co - Transmission	43,784	32,411	(2,092)	(10,056)	(16,215)	(16,817)	(18,045)	(18,273)	(19,222)	(20,289)	(21,604)
Kingsport Power Co.	387,614	304,999	197,926	131,016	83,476	74,128	63,006	51,274	36,616	26,061	11,288
210 Wheeling Power Co - Distribution	360,565	275,854	189,527	119,310	71,657	61,058	45,625	38,448	26,020	13,465	(2,276)
200 Wheeling Power Co - Transmission	(11,793)	(15,192)	(18,571)	(20,741)	(22,407)	(22,400)	(22,396)	(22,455)	(22,565)	(22,725)	(22,989)
Wheeling Power Co.	348,772	260,662	170,956	98,569	49,250	38,658	23,229	15,993	3,455	(9,260)	(25,265)
103 American Electric Power Service Corporation	44,256,631	36,356,646	27,862,721	21,154,408	16,499,291	15,182,808	13,901,463	12,639,145	11,279,010	9,839,273	8,431,670
American Electric Power Service Corp	44,256,631	36,356,646	27,862,721	21,154,408	16,499,291	15,182,808	13,901,463	12,639,145	11,279,010	9,839,273	8,431,670
143 AEP Pro Serv, Inc.	10,347	4,782	(668)	(4,139)	(7,063)	(7,387)	(7,727)	(8,111)	(9,142)	(9,693)	(10,559)
189 Central Coal Company	0	0	0	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	26,492	13,141	(5,128)	(9,913)	(17,004)	(18,860)	(18,648)	(19,731)	(22,161)	(26,816)	(28,561)
Miscellaneous	36,839	17,923	(5,796)	(14,052)	(24,067)	(26,247)	(26,375)	(28,142)	(31,303)	(36,509)	(39,120)
270 Cook Coal Terminal	108,629	93,900	72,849	54,834	43,031	39,465	36,016	31,861	28,557	24,510	18,882
AEP Generating Company	108,629	93,900	72,849	54,834	43,031	39,465	36,016	31,861	28,557	24,510	18,882
104 Cardinal Operating Company	1,250,530	896,099	457,444	110,860	(130,044)	(190,522)	(245,797)	(311,209)	(370,954)	(441,828)	(512,518)
181 Ohio Power Co - Generation	721,842	(737,866)	(2,388,048)	(3,636,042)	(4,507,880)	(4,857,016)	(4,811,131)	(4,980,245)	(5,165,560)	(5,359,001)	(5,608,999)
AEP Generation Resources - FERC	1,972,372	158,223	(1,930,964)	(3,525,182)	(4,637,924)	(4,847,538)	(5,056,928)	(5,291,454)	(5,536,514)	(5,800,829)	(6,121,517)
290 Conesville Coal Preparation Company	(52,158)	(69,269)	(86,330)	(98,384)	(107,334)	(107,589)	(108,001)	(108,000)	(109,200)	(110,652)	(112,605)
AEP Generation Resources - SEC	1,920,214	88,954	(2,017,294)	(3,623,566)	(4,745,262)	(4,955,249)	(5,164,517)	(5,399,455)	(5,645,714)	(5,911,481)	(6,234,122)
175 AEP Energy Partners	831,515	777,622	600,363	462,182	352,723	309,319	273,887	243,438	213,461	183,484	153,507
AEP Energy Supply	2,751,729	866,576	(1,356,112)	(3,014,203)	(4,172,289)	(4,402,942)	(4,631,228)	(4,884,648)	(5,149,294)	(5,435,332)	(5,776,261)
293 Elmwood	194,095	187,427	161,260	134,465	118,816	109,217	103,022	95,613	88,417	80,338	75,525
292 AEP River Operations LLC	4,710,417	4,673,231	4,321,701	3,950,502	3,738,405	3,596,128	3,442,073	3,340,531	3,219,337	3,098,340	2,977,679
AEP River Operations	4,904,512	4,860,658	4,482,961	4,084,967	3,857,221	3,705,345	3,545,095	3,436,14			

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
2015 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$351,058,538	\$308,693,918	\$4,611,599	\$13,773,696	(\$18,062,786)	\$86,250	\$7,159,245	\$7,568,004
215 Appalachian Power Co - Generation	293,728,982	262,257,642	4,047,879	11,551,503	(15,345,633)	81,866	5,990,105	6,325,720
150 Appalachian Power Co - Transmission	32,189,260	22,298,380	14,833	1,238,425	(1,304,758)	12,132	656,445	617,077
Appalachian Power Co. - FERC	\$676,976,780	\$593,249,940	\$8,674,311	\$26,563,624	(\$34,713,177)	\$180,248	\$13,805,795	\$14,510,801
225 Cedar Coal Co	3,310,443	4,590,087	0	126,592	(268,582)	43	67,511	(74,436)
Appalachian Power Co. - SEC	\$680,287,223	\$597,840,027	\$8,674,311	\$26,690,216	(\$34,981,759)	\$180,291	\$13,873,306	\$14,436,365
211 AEP Texas Central Company - Distribution	\$295,386,551	\$273,053,534	\$5,063,971	\$11,612,168	(\$15,977,340)	\$237,577	\$6,023,909	\$6,960,285
147 AEP Texas Central Company - Generation	3,552,535	10,882,437	0	134,325	(636,770)	0	72,448	(429,997)
169 AEP Texas Central Company - Transmission	29,012,907	25,683,685	653,116	1,147,355	(1,502,844)	26,951	591,669	916,247
AEP Texas Central Co.	\$327,951,993	\$309,619,656	\$5,717,087	\$12,893,848	(\$18,116,954)	\$264,528	\$6,688,026	\$7,446,535
170 Indiana Michigan Power Co - Distribution	\$175,731,246	\$159,617,623	\$2,617,479	\$6,898,267	(\$9,339,798)	\$44,840	\$3,583,741	\$3,804,529
132 Indiana Michigan Power Co - Generation	120,069,093	105,727,302	1,850,850	4,742,378	(6,186,483)	29,551	2,448,606	2,884,902
190 Indiana Michigan Power Co - Nuclear	243,326,723	222,357,277	6,840,960	9,759,184	(13,010,920)	81,866	4,962,237	8,633,327
120 Indiana Michigan Power Co - Transmission	40,926,437	33,442,008	599,615	1,613,470	(1,956,812)	9,762	834,625	1,100,660
280 Ind Mich River Transp Lakin	35,499,886	33,660,785	891,974	1,412,488	(1,969,613)	16,001	723,960	1,074,810
Indiana Michigan Power Co. - FERC	\$615,553,385	\$554,804,995	\$12,800,878	\$24,425,787	(\$32,463,626)	\$182,020	\$12,553,169	\$17,498,228
202 Price River Coal	0	0	0	0	0	5	0	5
Indiana Michigan Power Co. - SEC	\$615,553,385	\$554,804,995	\$12,800,878	\$24,425,787	(\$32,463,626)	\$182,025	\$12,553,169	\$17,498,233
110 Kentucky Power Co - Distribution	\$78,395,526	\$66,661,028	\$1,103,729	\$3,081,834	(\$3,900,575)	\$22,536	\$1,598,744	\$1,906,268
117 Kentucky Power Co - Generation	37,126,896	31,026,547	356,343	1,459,125	(1,815,474)	12,083	757,140	769,217
180 Kentucky Power Co - Transmission	3,522,228	1,835,639	3,429	136,040	(107,410)	3,701	71,830	107,590
600 Kentucky Power Co. - Kammer Actives	6,374,749	6,141,484	166,554	258,502	(359,360)	1,581	130,002	197,279
701 Kentucky Power Co. - Mitchell Actives	32,422,959	34,156,614	1,047,202	1,322,846	(1,998,626)	6,951	661,211	1,039,584
702 Kentucky Power Co. - Mitchell Inactives	27,728,122	30,765,886	0	1,067,525	(1,800,210)	5,791	565,468	(161,426)
Kentucky Power Co.	\$185,570,480	\$170,586,998	\$2,677,257	\$7,325,872	(\$9,981,655)	\$52,643	\$3,784,395	\$3,858,512
250 Ohio Power Co - Distribution	\$468,396,274	\$427,969,446	\$6,626,653	\$18,356,417	(\$25,042,024)	\$117,145	\$9,552,149	\$9,609,740
160 Ohio Power Co - Transmission	49,861,262	42,224,927	40,631	1,915,417	(2,470,732)	23,045	1,016,836	525,197
Ohio Power Co.	\$518,257,536	\$470,194,373	\$6,666,684	\$20,271,834	(\$27,512,756)	\$140,190	\$10,568,985	\$10,134,937
167 Public Service Co of Oklahoma - Distribution	\$168,734,498	\$157,911,864	\$3,573,897	\$6,654,999	(\$9,239,988)	\$152,670	\$3,441,055	\$4,582,633
198 Public Service Co of Oklahoma - Generation	84,762,890	80,911,654	2,246,793	3,357,739	(4,734,430)	80,740	1,728,596	2,679,438
114 Public Service Co of Oklahoma - Transmission	20,400,941	19,982,538	534,232	811,978	(1,169,250)	19,403	416,043	612,406
Public Service Co. of Oklahoma	\$273,898,329	\$258,806,056	\$6,354,922	\$10,824,716	(\$15,143,668)	\$252,813	\$5,585,694	\$7,874,477
159 Southwestern Electric Power Co - Distribution	\$104,781,215	\$99,824,272	\$2,827,725	\$4,164,661	(\$5,841,075)	\$112,469	\$2,136,836	\$3,400,616
168 Southwestern Electric Power Co - Generation	117,748,236	108,494,289	3,656,185	4,702,814	(6,348,389)	118,503	2,401,276	4,530,389
161 Southwestern Electric Power Co - Texas - Distribution	54,899,310	49,599,965	1,326,421	2,176,401	(2,902,271)	58,311	1,119,579	1,778,441
111 Southwestern Electric Power Co - Texas - Transmission	143,141	63,059	0	5,265	(3,690)	11	2,919	4,505
194 Southwestern Electric Power Co - Transmission	15,313,380	16,013,348	479,082	612,371	(936,998)	19,320	312,290	486,065
Southwestern Electric Power Co.	\$292,885,282	\$273,994,933	\$8,289,413	\$11,661,512	(\$16,032,423)	\$308,614	\$5,972,900	\$10,200,016
119 AEP Texas North Company - Distribution	\$71,420,300	\$64,719,963	\$1,510,820	\$2,789,967	(\$3,786,997)	\$77,637	\$1,456,496	\$2,047,923
166 AEP Texas North Company - Generation	20,903,260	24,588,639	0	801,586	(1,438,769)	1,465	426,287	(209,431)
192 AEP Texas North Company - Transmission	10,693,513	10,274,562	332,910	428,651	(601,201)	10,813	218,076	389,249
AEP Texas North Co.	\$103,017,073	\$99,583,164	\$1,843,730	\$4,020,204	(\$5,826,967)	\$89,915	\$2,100,859	\$2,227,741
230 Kingsport Power Co - Distribution	\$14,386,225	\$12,804,564	\$229,588	\$566,863	(\$749,241)	\$3,237	\$293,383	\$343,830
260 Kingsport Power Co - Transmission	2,465,526	1,739,397	318	94,473	(101,778)	491	50,280	43,784
Kingsport Power Co.	\$16,851,751	\$14,543,961	\$229,906	\$661,336	(\$851,019)	\$3,728	\$343,663	\$387,614
210 Wheeling Power Co - Distribution	\$17,194,680	\$15,387,177	\$230,249	\$674,119	(\$900,359)	\$5,900	\$350,656	\$360,565
200 Wheeling Power Co - Transmission	668,137	861,595	0	24,987	(50,415)	9	13,626	(11,793)
Wheeling Power Co.	\$17,862,817	\$16,248,772	\$230,249	\$699,106	(\$950,774)	\$5,909	\$364,282	\$348,772
103 American Electric Power Service Corporation	\$1,612,604,154	\$1,400,562,474	\$29,025,144	\$63,704,556	(\$81,951,927)	\$592,525	\$32,886,333	\$44,256,631
American Electric Power Service Corp	\$1,612,604,154	\$1,400,562,474	\$29,025,144	\$63,704,556	(\$81,951,927)	\$592,525	\$32,886,333	\$44,256,631
143 AEP Pro Serv, Inc.	\$1,174,069	\$1,009,886	\$0	\$45,456	(\$59,092)	\$40	\$23,943	\$10,347
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,834,687	2,446,304	0	111,082	(143,142)	743	57,809	26,492
Miscellaneous	\$4,008,756	\$3,456,190	\$0	\$156,538	(\$202,234)	\$783	\$81,752	\$36,839
270 Cook Coal Terminal	\$3,884,252	\$3,964,055	\$105,227	\$155,253	(\$231,951)	\$887	\$79,213	\$108,629
AEP Generating Company	\$3,884,252	\$3,964,055	\$105,227	\$155,253	(\$231,951)	\$887	\$79,213	\$108,629
104 Cardinal Operating Company	\$84,002,924	\$87,736,782	\$1,338,781	\$3,315,303	(\$5,133,793)	\$17,142	\$1,713,097	\$1,250,530
181 Ohio Power Co - Generation	317,812,462	364,369,166	3,078,444	12,402,953	(21,320,544)	79,742	6,481,247	721,842
AEP Generation Resources - FERC	\$401,815,386	\$452,105,948	\$4,417,225	\$15,718,256	(\$26,454,337)	\$96,884	\$8,194,344	\$1,972,372
290 Conesville Coal Preparation Company	3,439,301	4,346,519	0	131,404	(254,330)	629	70,139	(52,158)
AEP Generation Resources - SEC	\$405,254,687	\$456,452,467	\$4,417,225	\$15,849,660	(\$26,708,667)	\$97,513	\$8,264,483	\$1,920,214
175 AEP Energy Partners	10,132,110	7,200,513	618,215	425,681	(421,328)	2,320	206,627	831,515
AEP Energy Supply	\$415,386,797	\$463,652,980	\$5,035,440	\$16,275,341	(\$27,129,995)	\$99,833	\$8,471,110	\$2,751,729
293 Elmwood	\$3,469,024	\$5,056,202	\$266,283	\$146,222	(\$295,856)	\$6,701	\$70,745	\$194,095
292 AEP River Operations LLC	49,725,706	52,441,392	4,598,014	2,129,334	(3,068,534)	37,531	1,014,072	4,710,417
AEP River Operations	\$53,194,730	\$57,497,594	\$4,864,297	\$2,275,556	(\$3,364,390)	\$44,232	\$1,084,817	\$4,904,512
Total	\$5,121,214,558	\$4,695,356,228	\$92,514,545	\$202,041,675	(\$274,742,098)	\$2,218,916	\$104,438,504	\$126,471,542

American Electric Power System Retirement Plan

AMERICAN ELECTRIC POWER
 QUALIFIED RETIREMENT PLAN
 ESTIMATED 2016 NET PERIODIC PENSION COST

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$339,311,930	\$317,760,689	\$4,839,504	\$14,160,025	(\$18,640,620)	\$84,048	\$5,411,682	\$5,854,639
215 Appalachian Power Co - Generation	283,900,652	270,105,153	4,247,925	11,873,111	(15,845,029)	80,120	4,527,929	4,884,056
150 Appalachian Power Co - Transmission	31,112,190	22,597,708	15,566	1,274,488	(1,325,637)	11,874	496,208	472,499
Appalachian Power Co. - FERC	\$654,324,772	\$610,463,550	\$9,102,995	\$27,307,624	(\$35,811,286)	\$176,042	\$10,435,819	\$11,211,194
225 Cedar Coal Co	3,199,674	4,648,358	0	129,974	(272,684)	0	51,032	(91,678)
Appalachian Power Co. - SEC	\$657,524,446	\$615,111,908	\$9,102,995	\$27,437,598	(\$36,083,970)	\$176,042	\$10,486,851	\$11,119,516
211 AEP Texas Central Company - Distribution	\$285,502,758	\$282,172,405	\$5,314,232	\$11,938,761	(\$16,552,924)	\$230,717	\$4,553,481	\$5,484,267
147 AEP Texas Central Company - Generation	3,433,665	109,135,549	0	138,045	(646,495)	28,877	1,850,964	(453,687)
169 AEP Texas Central Company - Transmission	28,042,119	26,738,871	685,393	1,173,198	(1,568,568)	26,282	447,243	763,548
AEP Texas Central Co.	\$316,978,542	\$319,931,867	\$5,999,625	\$13,250,004	(\$18,767,987)	\$256,999	\$5,055,487	\$5,794,128
170 Indiana Michigan Power Co - Distribution	\$169,851,184	\$164,565,284	\$2,746,834	\$7,092,334	(\$9,653,802)	\$43,409	\$2,708,955	\$2,937,730
132 Indiana Michigan Power Co - Generation	116,051,516	119,135,549	1,942,319	4,876,902	(6,402,158)	28,877	1,850,964	2,296,844
190 Indiana Michigan Power Co - Nuclear	235,184,880	232,816,387	7,179,039	10,064,700	(13,657,579)	80,170	3,750,961	7,417,291
120 Indiana Michigan Power Co - Transmission	39,557,016	34,535,485	629,248	1,656,822	(2,025,936)	9,513	630,894	900,541
280 Ind Mich River Transp Lakin	34,312,041	34,919,492	936,055	1,457,922	(2,048,463)	15,502	547,242	908,258
Indiana Michigan Power Co. - FERC	\$594,956,637	\$575,972,197	\$13,433,495	\$25,148,680	(\$33,787,938)	\$177,471	\$9,488,956	\$14,460,664
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$594,956,637	\$575,972,197	\$13,433,495	\$25,148,680	(\$33,787,938)	\$177,471	\$9,488,956	\$14,460,664
110 Kentucky Power Co - Distribution	\$75,772,369	\$68,739,078	\$1,158,275	\$3,175,785	(\$4,032,403)	\$22,145	\$1,208,493	\$1,532,295
117 Kentucky Power Co - Generation	35,884,610	31,817,966	373,953	1,497,333	(1,866,520)	11,852	572,323	588,941
180 Kentucky Power Co - Transmission	3,404,372	1,862,765	3,598	139,629	(109,274)	3,639	54,296	91,888
600 Kentucky Power Co. - Kammer Actives	6,161,446	6,277,743	174,785	264,985	(368,268)	1,535	98,269	171,306
701 Kentucky Power Co. - Mitchell Actives	31,338,069	34,758,425	1,098,955	1,358,492	(2,039,014)	6,750	499,811	924,994
702 Kentucky Power Co. - Mitchell Inactives	26,800,324	31,156,262	0	1,095,743	(1,827,703)	5,623	427,438	(298,899)
Kentucky Power Co.	\$179,361,190	\$174,612,239	\$2,809,566	\$7,531,967	(\$10,243,182)	\$51,544	\$2,860,630	\$3,010,525
250 Ohio Power Co - Distribution	\$452,723,482	\$440,798,982	\$6,953,512	\$18,858,157	(\$25,858,347)	\$113,103	\$7,220,482	\$7,286,907
160 Ohio Power Co - Transmission	48,192,877	42,805,893	42,639	1,966,019	(2,511,098)	22,377	768,628	288,565
Ohio Power Co.	\$500,916,359	\$483,604,875	\$6,996,151	\$20,824,176	(\$28,369,445)	\$135,480	\$7,989,110	\$7,575,472
167 Public Service Co of Oklahoma - Distribution	\$163,088,551	\$163,906,237	\$3,750,519	\$6,839,132	(\$9,615,141)	\$148,180	\$2,601,098	\$3,723,788
198 Public Service Co of Oklahoma - Generation	81,926,678	83,507,947	2,357,829	3,463,818	(4,898,781)	79,178	1,306,648	2,308,692
114 Public Service Co of Oklahoma - Transmission	19,718,315	20,322,224	560,634	829,139	(1,192,151)	18,956	314,487	531,065
Public Service Co. of Oklahoma	\$264,733,544	\$267,736,408	\$6,668,982	\$11,132,089	(\$15,706,073)	\$246,314	\$4,222,233	\$6,563,545
159 Southwestern Electric Power Co - Distribution	\$101,275,179	\$103,285,630	\$2,967,471	\$4,290,914	(\$6,058,988)	\$110,193	\$1,615,237	\$2,924,827
168 Southwestern Electric Power Co - Generation	113,808,317	113,953,035	3,836,873	4,846,119	(6,684,764)	116,270	1,815,128	3,929,626
161 Southwestern Electric Power Co - Texas - Distribution	53,062,349	51,709,879	1,391,973	2,239,034	(3,033,428)	57,264	846,291	1,501,134
111 Southwestern Electric Power Co - Texas - Transmission	138,351	63,860	0	5,436	(3,746)	0	2,207	3,897
194 Southwestern Electric Power Co - Transmission	14,800,986	16,294,045	502,758	630,366	(955,849)	18,985	236,061	432,321
Southwestern Electric Power Co.	\$283,085,182	\$285,306,449	\$8,699,075	\$12,011,869	(\$16,736,775)	\$302,712	\$4,514,924	\$8,791,805
119 AEP Texas North Company - Distribution	69,030,538	67,228,238	1,585,485	2,898,618	(3,943,773)	76,192	1,100,967	1,717,489
166 AEP Texas North Company - Generation	20,203,826	24,900,795	0	818,757	(1,460,742)	760	322,231	(318,994)
192 AEP Texas North Company - Transmission	10,335,702	10,590,386	349,362	439,894	(621,258)	10,619	164,844	343,461
AEP Texas North Co.	\$99,570,066	\$102,719,419	\$1,934,847	\$4,157,269	(\$6,025,773)	\$87,571	\$1,588,042	\$1,741,956
230 Kingsport Power Co - Distribution	\$13,904,854	\$13,223,223	\$240,934	\$582,447	(\$775,707)	\$3,146	\$221,768	\$272,588
260 Kingsport Power Co - Transmission	2,383,028	1,761,480	334	96,932	(103,333)	471	38,007	32,411
Kingsport Power Co.	\$16,287,882	\$14,984,703	\$241,268	\$679,379	(\$879,040)	\$3,617	\$259,775	\$304,999
210 Wheeling Power Co - Distribution	\$16,619,337	\$15,839,579	\$241,628	\$692,592	(\$929,188)	\$5,760	\$265,062	\$275,854
200 Wheeling Power Co - Transmission	645,781	872,533	0	25,693	(51,185)	0	10,300	(15,192)
Wheeling Power Co.	\$17,265,118	\$16,712,112	\$241,628	\$718,285	(\$980,373)	\$5,760	\$275,362	\$260,662
103 American Electric Power Service Corporation	\$1,558,645,546	\$1,450,737,890	\$30,459,562	\$65,569,655	(\$85,103,837)	\$572,446	\$24,858,820	\$36,356,646
American Electric Power Service Corp	\$1,558,645,546	\$1,450,737,890	\$30,459,562	\$65,569,655	(\$85,103,837)	\$572,446	\$24,858,820	\$36,356,646
143 AEP Pro Serv, Inc.	\$1,134,784	\$1,022,707	\$0	\$46,638	(\$59,994)	\$39	\$18,099	\$4,782
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,739,837	2,477,361	0	114,056	(145,328)	715	43,698	13,141
Miscellaneous	\$3,874,621	\$3,500,068	\$0	\$160,694	(\$205,322)	\$754	\$61,797	\$17,923
270 Cook Coal Terminal	\$3,754,283	\$4,031,580	\$110,427	\$159,227	(\$236,502)	\$871	\$59,877	\$93,900
AEP Generating Company	\$3,754,283	\$4,031,580	\$110,427	\$159,227	(\$236,502)	\$871	\$59,877	\$93,900
104 Cardinal Operating Company	\$81,192,141	\$89,065,626	\$1,404,943	\$3,404,287	(\$5,224,808)	\$16,734	\$1,294,933	\$896,089
181 Ohio Power Co - Generation	307,178,286	369,488,944	3,230,580	12,730,061	(21,675,126)	77,436	4,899,183	(737,866)
AEP Generation Resources - FERC	\$388,370,427	\$458,554,570	\$4,635,523	\$16,134,348	(\$26,899,934)	\$94,170	\$6,194,116	\$158,223
290 Conesville Coal Preparation Company	3,324,220	4,401,699	0	135,313	(258,214)	614	53,018	(69,269)
AEP Generation Resources - SEC	\$391,694,647	\$462,956,269	\$4,635,523	\$16,269,661	(\$27,158,148)	\$94,784	\$6,247,134	\$88,954
175 AEP Energy Partners	9,793,084	7,981,872	648,767	438,668	(468,236)	2,233	156,190	777,622
AEP Energy Supply	\$401,487,731	\$470,938,141	\$5,284,290	\$16,708,329	(\$27,626,384)	\$97,017	\$6,403,324	\$866,576
293 Elmwood	\$3,352,949	\$5,163,394	\$279,443	\$150,893	(\$302,897)	\$6,512	\$53,476	\$187,427
292 AEP River Operations LLC	48,061,857	53,845,828	4,825,247	2,203,712	(3,158,728)	36,462	766,538	4,673,231
AEP River Operations	\$51,414,806	\$59,009,222	\$5,104,690	\$2,354,605	(\$3,461,625)	\$42,974	\$820,014	\$4,860,658
Total	\$4,949,855,953	\$4,844,909,078	\$97,086,601	\$207,843,826	(\$284,214,226)	\$2,157,572	\$78,945,202	\$101,818,975

**AMERICAN ELECTRIC POWER
 QUALIFIED RETIREMENT PLAN
 ESTIMATED 2017 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$329,481,283	\$326,964,095	\$4,971,164	\$14,554,716	(\$19,177,608)	\$78,793	\$3,676,289	\$4,103,354
215 Appalachian Power Co - Generation	275,675,397	278,035,259	4,363,491	12,196,272	(16,307,757)	74,093	3,075,933	3,402,032
150 Appalachian Power Co - Transmission	30,210,798	28,618,115	15,990	1,310,848	(1,678,554)	11,419	337,086	(3,211)
Appalachian Power Co. - FERC	\$635,367,478	\$633,617,469	\$9,350,645	\$28,061,836	(\$37,163,919)	\$164,305	\$7,089,308	\$7,502,175
225 Cedar Coal Co	3,106,972	4,726,460	0	133,530	(277,224)	0	34,667	(109,027)
Appalachian Power Co. - SEC	\$638,474,450	\$638,343,929	\$9,350,645	\$28,195,366	(\$37,441,143)	\$164,305	\$7,123,975	\$7,393,148
211 AEP Texas Central Company - Distribution	\$277,231,086	\$291,157,580	\$5,458,808	\$12,225,685	(\$17,077,428)	\$32,327	\$3,093,291	\$3,732,683
147 AEP Texas Central Company - Generation	3,334,184	11,205,759	0	142,110	(657,258)	0	37,202	(477,946)
169 AEP Texas Central Company - Transmission	27,229,674	27,735,201	704,039	1,202,966	(1,626,768)	3,887	303,823	587,947
AEP Texas Central Co.	\$307,794,944	\$330,098,540	\$6,162,847	\$13,570,761	(\$19,361,454)	\$36,214	\$3,434,316	\$3,842,684
170 Indiana Michigan Power Co - Distribution	\$164,930,204	\$169,524,084	\$2,821,563	\$7,290,092	(\$9,943,191)	\$37,120	\$1,840,259	\$2,045,843
132 Indiana Michigan Power Co - Generation	112,689,237	112,520,332	1,995,160	5,007,884	(6,599,718)	26,761	1,257,365	1,687,452
190 Indiana Michigan Power Co - Nuclear	228,371,033	242,460,842	7,374,348	10,330,485	(14,221,191)	67,613	2,548,120	6,099,375
120 Indiana Michigan Power Co - Transmission	38,410,958	36,872,787	646,367	1,702,280	(2,162,720)	8,588	428,582	623,097
280 Ind Mich River Transp Lakin	33,317,942	36,253,709	961,521	1,499,223	(2,126,409)	10,849	371,755	716,939
Indiana Michigan Power Co. - FERC	\$577,719,374	\$597,631,754	\$13,798,959	\$25,829,964	(\$35,053,229)	\$150,931	\$6,446,081	\$11,172,706
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$577,719,374	\$597,631,754	\$13,798,959	\$25,829,964	(\$35,053,229)	\$150,931	\$6,446,081	\$11,172,706
110 Kentucky Power Co - Distribution	\$73,577,069	\$71,657,507	\$1,189,787	\$3,262,212	(\$4,202,968)	\$21,315	\$820,959	\$1,091,305
117 Kentucky Power Co - Generation	34,844,950	33,292,233	384,127	1,537,520	(1,952,708)	10,918	388,793	368,650
180 Kentucky Power Co - Transmission	3,305,740	3,132,539	3,696	143,737	(183,735)	3,227	36,885	3,810
600 Kentucky Power Co. - Kammer Actives	5,982,935	6,522,976	179,540	272,131	(382,596)	1,383	66,756	137,214
701 Kentucky Power Co. - Mitchell Actives	30,430,133	36,219,576	1,128,852	1,395,996	(2,124,407)	6,082	339,534	746,057
702 Kentucky Power Co. - Mitchell Inactives	26,023,857	31,679,751	0	1,126,322	(1,858,130)	5,067	290,369	(436,372)
Kentucky Power Co.	\$174,164,684	\$182,504,582	\$2,886,002	\$7,737,918	(\$10,704,544)	\$47,992	\$1,943,296	\$1,910,664
250 Ohio Power Co - Distribution	\$439,607,041	\$453,757,760	\$7,142,685	\$19,392,810	(\$26,614,508)	\$96,985	\$4,905,051	\$4,923,023
160 Ohio Power Co - Transmission	46,796,618	44,344,334	43,799	2,020,614	(2,600,953)	19,325	522,148	4,933
Ohio Power Co.	\$486,403,659	\$498,102,094	\$7,186,484	\$21,413,424	(\$29,215,461)	\$116,310	\$5,427,199	\$4,927,956
167 Public Service Co of Oklahoma - Distribution	\$158,363,500	\$169,654,790	\$3,852,553	\$7,025,681	(\$9,950,857)	\$23,036	\$1,766,989	\$2,717,402
198 Public Service Co of Oklahoma - Generation	79,553,074	86,794,050	2,421,975	3,556,835	(5,090,780)	11,866	887,638	1,787,534
114 Public Service Co of Oklahoma - Transmission	19,147,030	21,111,443	575,886	848,462	(1,238,261)	2,611	213,639	402,337
Public Service Co. of Oklahoma	\$257,063,604	\$277,560,283	\$6,850,414	\$11,430,978	(\$16,279,898)	\$37,513	\$2,868,266	\$4,907,273
159 Southwestern Electric Power Co - Distribution	\$98,341,004	\$107,390,417	\$3,048,202	\$4,410,318	(\$6,298,830)	\$16,285	\$1,097,270	\$2,273,245
168 Southwestern Electric Power Co - Generation	110,511,028	118,931,229	3,941,257	4,968,158	(6,975,740)	15,968	1,233,061	3,182,704
161 Southwestern Electric Power Co - Texas - Distribution	51,525,011	53,690,305	1,429,842	2,290,983	(3,149,127)	8,496	574,906	1,155,100
111 Southwestern Electric Power Co - Texas - Transmission	134,343	127,455	0	5,623	(7,476)	0	1,499	(354)
194 Southwestern Electric Power Co - Transmission	14,372,167	16,969,610	516,436	648,913	(995,328)	2,932	160,362	333,315
Southwestern Electric Power Co.	\$274,883,553	\$297,109,016	\$8,935,737	\$12,323,995	(\$17,426,501)	\$43,681	\$3,067,098	\$6,944,010
119 AEP Texas North Company - Distribution	67,030,564	69,623,869	1,628,618	2,978,248	(4,083,688)	10,480	747,914	1,281,572
166 AEP Texas North Company - Generation	19,618,475	25,319,180	0	844,720	(1,485,060)	92	218,899	(421,349)
192 AEP Texas North Company - Transmission	10,036,253	11,046,915	358,867	451,561	(647,941)	1,612	111,983	276,082
AEP Texas North Co.	\$96,685,292	\$105,989,964	\$1,987,485	\$4,274,529	(\$6,216,689)	\$12,184	\$1,078,796	\$1,136,305
230 Kingsport Power Co - Distribution	\$13,501,998	\$13,637,561	\$247,489	\$598,837	(\$799,891)	\$2,930	\$150,653	\$200,018
260 Kingsport Power Co - Transmission	2,313,986	2,191,029	343	99,869	(128,512)	389	25,819	(2,092)
Kingsport Power Co.	\$15,815,984	\$15,828,590	\$247,832	\$698,706	(\$928,403)	\$3,319	\$176,472	\$197,926
210 Wheeling Power Co - Distribution	\$16,137,837	\$16,298,797	\$248,201	\$712,396	(\$955,982)	\$4,849	\$180,063	\$189,527
200 Wheeling Power Co - Transmission	627,071	887,194	0	26,469	(52,037)	0	6,997	(18,571)
Wheeling Power Co.	\$16,764,908	\$17,185,991	\$248,201	\$738,865	(\$1,008,019)	\$4,849	\$187,060	\$170,956
103 American Electric Power Service Corporation	\$1,513,487,998	\$1,499,436,043	\$31,288,229	\$67,357,127	(\$87,947,259)	\$277,416	\$16,887,208	\$27,862,721
American Electric Power Service Corp	\$1,513,487,998	\$1,499,436,043	\$31,288,229	\$67,357,127	(\$87,947,259)	\$277,416	\$16,887,208	\$27,862,721
143 AEP Pro Serv, Inc.	\$1,101,907	\$1,043,568	\$0	\$48,207	(\$61,209)	\$39	\$12,295	(\$668)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,660,458	2,518,985	0	112,614	(147,747)	320	29,685	(5,128)
Miscellaneous	\$3,762,365	\$3,562,553	\$0	\$160,821	(\$208,956)	\$359	\$41,980	(\$5,796)
270 Cook Coal Terminal	\$3,645,513	\$4,187,585	\$113,432	\$163,503	(\$245,617)	\$855	\$40,676	\$72,849
AEP Generating Company	\$3,645,513	\$4,187,585	\$113,432	\$163,503	(\$245,617)	\$855	\$40,676	\$72,849
104 Cardinal Operating Company	\$78,839,818	\$91,683,819	\$1,443,165	\$3,496,304	(\$5,377,582)	\$15,877	\$879,680	\$457,444
181 Ohio Power Co - Generation	298,278,624	378,277,043	3,318,470	13,082,506	(22,187,295)	69,776	3,328,135	(2,388,408)
AEP Generation Resources - FERC	\$377,118,442	\$469,960,862	\$4,761,635	\$16,578,810	(\$27,564,877)	\$85,653	\$4,207,815	(\$1,930,964)
290 Conesville Coal Preparation Company	3,227,910	4,475,657	0	139,553	(262,513)	614	36,016	(86,330)
AEP Generation Resources - SEC	\$380,346,352	\$474,436,519	\$4,761,635	\$16,718,363	(\$27,827,390)	\$86,267	\$4,243,831	(\$2,017,294)
175 AEP Energy Partners	9,509,356	9,521,796	666,417	446,149	(558,487)	999	106,104	661,182
AEP Energy Supply	\$389,855,708	\$483,958,315	\$5,428,052	\$17,164,512	(\$28,385,877)	\$87,266	\$4,349,935	(\$1,356,112)
293 Elmwood	\$3,255,806	\$5,473,572	\$287,045	\$155,004	(\$321,044)	\$3,927	\$36,328	\$161,260
292 AEP River Operations LLC	46,669,394	58,603,890	4,956,520	2,260,028	(3,437,327)	21,752	520,728	4,321,701
AEP River Operations	\$49,925,200	\$64,077,462	\$5,243,565	\$2,415,032	(\$3,758,371)	\$25,679	\$557,056	\$4,482,961
Total	\$4,806,447,236	\$5,015,576,701	\$99,727,884	\$213,475,501	(\$294,181,421)	\$1,008,873	\$53,629,414	\$73,660,251

American Electric Power System Retirement Plan

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2018 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$319,855,733	\$333,160,802	\$5,023,897	\$14,888,755	(\$19,545,355)	\$865	\$2,318,366	\$2,886,528
215 Appalachian Power Co - Generation	267,621,746	283,423,920	4,409,778	12,489,463	(16,627,469)	815	1,939,766	2,212,353
150 Appalachian Power Co - Transmission	29,328,212	28,792,668	16,159	1,342,202	(1,689,163)	126	212,576	(118,100)
Appalachian Power Co. - FERC	\$616,805,691	\$645,377,390	\$9,449,834	\$28,720,420	(\$37,861,987)	\$1,806	\$4,470,708	\$4,780,781
225 Cedar Coal Co	3,016,204	4,752,970	0	136,750	(278,840)	0	21,862	(120,228)
Appalachian Power Co. - SEC	\$619,821,895	\$650,130,360	\$9,449,834	\$28,857,170	(\$38,140,827)	\$1,806	\$4,492,570	\$4,660,553
211 AEP Texas Central Company - Distribution	\$269,131,987	\$297,581,759	\$5,516,713	\$12,530,988	(\$17,458,059)	\$66	\$1,950,712	\$2,540,420
147 AEP Texas Central Company - Generation	3,236,778	11,268,609	0	145,843	(661,089)	0	23,461	(491,785)
169 AEP Texas Central Company - Transmission	26,434,180	28,508,635	711,508	1,243,452	(1,672,500)	10	191,599	474,069
AEP Texas Central Co.	\$298,802,945	\$337,359,003	\$6,228,221	\$13,920,283	(\$19,791,648)	\$76	\$2,165,772	\$2,522,704
170 Indiana Michigan Power Co - Distribution	\$160,111,892	\$172,951,659	\$2,851,494	\$7,463,396	(\$10,146,456)	\$408	\$1,160,517	\$1,329,359
132 Indiana Michigan Power Co - Generation	109,397,105	114,902,363	2,016,325	5,122,118	(6,740,911)	294	792,928	1,190,754
190 Indiana Michigan Power Co - Nuclear	221,699,344	250,292,621	7,452,574	10,594,612	(14,683,774)	744	1,606,913	4,971,069
120 Indiana Michigan Power Co - Transmission	37,288,811	37,646,566	653,223	1,743,331	(2,208,590)	94	270,275	458,333
280 Ind Mich River Transp Lakin	32,344,583	37,301,357	971,721	1,535,170	(2,188,337)	119	234,439	553,112
Indiana Michigan Power Co. - FERC	\$560,841,735	\$613,094,566	\$13,945,337	\$26,458,627	(\$35,968,068)	\$1,659	\$4,065,072	\$8,502,627
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$560,841,735	\$613,094,566	\$13,945,337	\$26,458,627	(\$35,968,068)	\$1,659	\$4,065,072	\$8,502,627
110 Kentucky Power Co - Distribution	\$71,427,570	\$73,103,832	\$1,202,407	\$3,338,816	(\$4,288,741)	\$235	\$517,719	\$770,436
117 Kentucky Power Co - Generation	33,826,981	33,815,982	388,202	1,572,278	(1,983,863)	120	245,183	221,920
180 Kentucky Power Co - Transmission	3,209,165	3,153,619	3,736	147,507	(185,012)	36	23,261	(10,472)
600 Kentucky Power Co. - Kammer Actives	5,808,148	6,717,541	181,445	278,080	(394,094)	15	42,098	107,544
701 Kentucky Power Co. - Mitchell Actives	29,541,139	37,413,603	1,140,827	1,426,401	(2,194,923)	67	214,119	586,491
702 Kentucky Power Co. - Mitchell Inactives	25,263,589	31,857,433	0	1,153,941	(1,868,962)	56	183,115	(531,850)
Kentucky Power Co.	\$169,076,592	\$186,062,010	\$2,916,617	\$7,917,023	(\$10,915,595)	\$529	\$1,225,495	\$1,144,069
250 Ohio Power Co - Distribution	\$426,764,250	\$462,571,900	\$7,218,453	\$19,863,532	(\$27,137,442)	\$1,066	\$3,093,257	\$3,038,866
160 Ohio Power Co - Transmission	45,429,490	44,631,665	44,264	2,070,068	(2,618,380)	213	329,280	(174,555)
Ohio Power Co.	\$472,193,740	\$507,203,565	\$7,262,717	\$21,933,600	(\$29,755,822)	\$1,279	\$3,422,537	\$2,864,311
167 Public Service Co of Oklahoma - Distribution	\$153,737,029	\$173,987,969	\$3,893,420	\$7,188,448	(\$10,207,253)	\$77	\$1,114,311	\$1,989,003
198 Public Service Co of Oklahoma - Generation	77,228,990	89,406,552	2,447,667	3,647,532	(5,245,163)	31	559,768	1,409,835
114 Public Service Co of Oklahoma - Transmission	18,587,664	21,735,385	581,995	877,538	(1,275,137)	5	134,726	319,127
Public Service Co. of Oklahoma	\$249,553,683	\$285,129,906	\$6,923,082	\$11,713,518	(\$16,727,553)	\$113	\$1,808,805	\$3,717,965
159 Southwestern Electric Power Co - Distribution	\$95,468,045	\$110,667,856	\$3,080,537	\$4,492,456	(\$6,492,488)	\$45	\$691,968	\$1,772,518
168 Southwestern Electric Power Co - Generation	107,282,531	123,057,150	3,983,065	5,096,003	(7,219,324)	32	777,601	2,637,377
161 Southwestern Electric Power Co - Texas - Distribution	50,019,746	55,246,496	1,445,009	2,351,803	(3,241,115)	22	362,551	918,270
111 Southwestern Electric Power Co - Texas - Transmission	130,418	128,169	0	5,798	(7,519)	0	945	(776)
194 Southwestern Electric Power Co - Transmission	13,952,295	17,517,662	521,914	664,923	(1,027,699)	9	101,129	260,276
Southwestern Electric Power Co.	\$266,853,035	\$306,617,333	\$9,030,525	\$12,610,983	(\$17,988,145)	\$108	\$1,934,194	\$5,587,665
119 AEP Texas North Company - Distribution	65,072,317	71,444,082	1,645,894	3,048,205	(4,191,369)	17	471,655	974,402
166 AEP Texas North Company - Generation	19,045,336	25,461,187	0	865,147	(1,493,717)	0	138,044	(490,526)
192 AEP Texas North Company - Transmission	9,743,051	11,423,955	362,674	462,632	(670,203)	4	70,619	225,726
AEP Texas North Co.	\$93,860,704	\$108,329,224	\$2,008,568	\$4,375,984	(\$6,355,289)	\$21	\$680,318	\$709,602
230 Kingsport Power Co - Distribution	\$13,107,548	\$13,930,833	\$250,114	\$613,192	(\$817,272)	\$32	\$95,006	\$141,072
260 Kingsport Power Co - Transmission	2,246,385	2,203,318	346	102,573	(129,281)	4	16,282	(10,056)
Kingsport Power Co.	\$15,353,933	\$16,134,151	\$250,460	\$715,765	(\$946,533)	\$36	\$111,288	\$131,016
210 Wheeling Power Co - Distribution	\$15,666,382	\$16,607,872	\$250,834	\$729,196	(\$974,325)	\$53	\$113,552	\$119,310
200 Wheeling Power Co - Transmission	608,752	892,170	0	27,187	(52,340)	0	4,412	(20,741)
Wheeling Power Co.	\$16,275,134	\$17,500,042	\$250,834	\$756,383	(\$1,026,665)	\$53	\$117,964	\$98,569
103 American Electric Power Service Corporation	\$1,469,272,576	\$1,535,305,838	\$31,620,126	\$68,952,906	(\$90,070,910)	\$2,759	\$10,649,526	\$21,154,408
American Electric Power Service Corp	\$1,469,272,576	\$1,535,305,838	\$31,620,126	\$68,952,906	(\$90,070,910)	\$2,759	\$10,649,526	\$21,154,408
143 AEP Pro Serv, Inc.	\$1,069,715	\$1,049,421	\$0	\$49,674	(\$61,566)	\$0	\$7,753	(\$4,139)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,582,734	2,533,114	0	119,973	(148,609)	3	18,720	(9,913)
Miscellaneous	\$3,652,449	\$3,582,535	\$0	\$169,647	(\$210,175)	\$3	\$26,473	(\$14,052)
270 Cook Coal Terminal	\$3,539,012	\$4,310,247	\$114,635	\$167,406	(\$252,867)	\$9	\$25,651	\$54,834
AEP Generating Company	\$3,539,012	\$4,310,247	\$114,635	\$167,406	(\$252,867)	\$9	\$25,651	\$54,834
104 Cardinal Operating Company	\$76,536,571	\$93,464,514	\$1,458,474	\$3,580,691	(\$5,483,229)	\$175	\$554,749	\$110,860
181 Ohio Power Co - Generation	289,564,637	383,310,771	3,353,671	13,398,181	(22,487,474)	768	2,098,812	(3,636,042)
AEP Generation Resources - FERC	\$366,101,208	\$476,775,285	\$4,812,145	\$16,978,872	(\$27,970,703)	\$943	\$2,653,561	(\$3,525,182)
290 Conesville Coal Preparation Company	3,133,609	4,500,759	0	142,939	(264,043)	7	22,713	(98,384)
AEP Generation Resources - SEC	\$369,234,817	\$481,276,044	\$4,812,145	\$17,121,811	(\$28,234,746)	\$950	\$2,676,274	(\$3,623,566)
175 AEP Energy Partners	9,231,547	10,159,725	673,486	464,990	(596,035)	10	66,912	609,363
AEP Energy Supply	\$378,466,364	\$491,435,769	\$5,485,631	\$17,586,801	(\$28,830,781)	\$960	\$2,743,186	(\$3,014,203)
293 Elmwood	\$3,160,690	\$5,756,161	\$290,090	\$159,116	(\$337,693)	\$43	\$22,909	\$134,465
292 AEP River Operations LLC	45,305,983	63,283,159	5,009,098	2,325,377	(3,712,597)	239	328,385	3,950,502
AEP River Operations	\$48,466,673	\$69,039,320	\$5,299,188	\$2,484,493	(\$4,050,290)	\$282	\$351,294	\$4,084,967
Total	\$4,666,030,470	\$5,131,233,869	\$100,785,775	\$218,620,589	(\$301,031,168)	\$9,693	\$33,820,145	\$52,205,035

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2019 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$310,800,390	\$338,789,728	\$5,173,813	\$15,233,719	(\$19,871,456)	\$0	\$1,186,510	\$1,722,586
215 Appalachian Power Co - Generation	260,045,185	288,326,793	4,541,368	12,755,729	(16,911,591)	0	992,748	1,378,254
150 Appalachian Power Co - Transmission	28,497,910	28,927,723	16,641	1,371,893	(1,696,734)	0	108,794	(199,406)
Appalachian Power Co. - FERC	\$599,343,485	\$656,044,244	\$9,731,822	\$29,361,341	(\$38,479,781)	\$0	\$2,288,052	\$2,901,434
225 Cedar Coal Co	2,930,813	4,773,048	0	139,916	(279,960)	0	11,189	(128,855)
Appalachian Power Co. - SEC	\$602,274,298	\$660,817,292	\$9,731,822	\$29,501,257	(\$38,759,741)	\$0	\$2,299,241	\$2,772,579
211 AEP Texas Central Company - Distribution	\$261,512,670	\$303,473,979	\$5,681,335	\$12,811,376	(\$17,800,037)	\$0	\$998,350	\$1,691,024
147 AEP Texas Central Company - Generation	3,145,143	11,316,213	0	149,439	(663,744)	0	12,007	(502,298)
169 AEP Texas Central Company - Transmission	25,685,809	29,227,227	732,739	1,266,711	(1,714,301)	0	98,058	383,207
AEP Texas Central Co.	\$290,343,622	\$344,017,419	\$6,414,074	\$14,227,526	(\$20,178,082)	\$0	\$1,108,415	\$1,571,933
170 Indiana Michigan Power Co - Distribution	\$155,579,010	\$176,078,275	\$2,936,584	\$7,627,270	(\$10,327,738)	\$0	\$593,938	\$830,054
132 Indiana Michigan Power Co - Generation	106,299,995	117,081,566	2,076,493	5,224,008	(6,867,331)	0	405,810	838,980
190 Indiana Michigan Power Co - Nuclear	215,422,878	257,611,764	7,674,962	10,817,015	(15,110,024)	0	822,398	4,204,351
120 Indiana Michigan Power Co - Transmission	36,233,138	38,354,264	672,716	1,778,952	(2,249,640)	0	138,323	340,351
280 Ind Mich River Transp Lakin	31,428,885	38,275,217	1,000,717	1,566,439	(2,245,004)	0	119,983	442,135
Indiana Michigan Power Co. - FERC	\$544,963,906	\$627,401,086	\$14,361,472	\$27,013,684	(\$36,799,737)	\$0	\$2,080,452	\$6,655,871
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$544,963,906	\$627,401,086	\$14,361,472	\$27,013,684	(\$36,799,737)	\$0	\$2,080,452	\$6,655,871
110 Kentucky Power Co - Distribution	\$69,405,405	\$74,422,729	\$1,238,288	\$3,405,425	(\$4,365,209)	\$0	\$264,962	\$543,466
117 Kentucky Power Co - Generation	32,869,315	34,285,180	399,786	1,604,667	(2,010,971)	0	125,482	118,964
180 Kentucky Power Co - Transmission	3,118,311	3,170,297	3,847	150,817	(185,951)	0	11,904	(19,383)
600 Kentucky Power Co. - Kammer Actives	5,643,715	6,898,604	186,859	282,101	(404,632)	0	21,545	85,873
701 Kentucky Power Co. - Mitchell Actives	28,704,809	38,530,555	1,174,870	1,455,948	(2,259,981)	0	108,583	480,420
702 Kentucky Power Co. - Mitchell Inactives	24,548,359	31,992,012	0	1,180,123	(1,876,467)	0	93,716	(602,628)
Kentucky Power Co.	\$164,289,914	\$189,299,377	\$3,003,650	\$8,079,081	(\$11,103,211)	\$0	\$627,192	\$606,712
250 Ohio Power Co - Distribution	\$414,682,251	\$470,591,490	\$7,433,855	\$20,312,012	(\$27,602,189)	\$0	\$1,583,089	\$1,726,767
160 Ohio Power Co - Transmission	44,143,349	44,857,121	45,684	2,110,907	(2,631,061)	0	168,521	(306,519)
Ohio Power Co.	\$458,825,600	\$515,448,611	\$7,479,439	\$22,422,919	(\$30,233,250)	\$0	\$1,751,610	\$1,420,718
167 Public Service Co of Oklahoma - Distribution	\$149,384,625	\$177,994,809	\$4,009,601	\$7,357,608	(\$10,440,151)	\$0	\$570,290	\$1,497,348
198 Public Service Co of Oklahoma - Generation	75,042,583	91,841,309	2,520,706	3,713,274	(5,386,883)	0	286,482	1,133,579
114 Public Service Co of Oklahoma - Transmission	18,061,434	22,316,303	599,362	898,779	(1,308,946)	0	68,951	258,146
Public Service Co. of Oklahoma	\$242,488,642	\$292,152,421	\$7,129,669	\$11,969,661	(\$17,135,980)	\$0	\$925,723	\$2,889,073
159 Southwestern Electric Power Co - Distribution	\$92,765,277	\$113,723,474	\$3,172,461	\$4,607,710	(\$6,670,365)	\$0	\$354,140	\$1,463,946
168 Southwestern Electric Power Co - Generation	104,245,286	126,923,502	4,101,921	5,194,258	(7,444,602)	0	397,966	2,249,543
161 Southwestern Electric Power Co - Texas - Distribution	48,603,651	56,693,818	1,488,129	2,404,823	(3,325,333)	0	185,549	753,168
111 Southwestern Electric Power Co - Texas - Transmission	126,726	128,711	0	5,967	(7,549)	0	484	(1,098)
194 Southwestern Electric Power Co - Transmission	13,557,296	18,030,426	537,488	680,805	(1,057,561)	0	51,756	212,488
Southwestern Electric Power Co.	\$259,298,236	\$315,499,931	\$9,299,999	\$12,893,563	(\$18,505,410)	\$0	\$989,895	\$4,678,007
119 AEP Texas North Company - Distribution	63,230,073	73,128,455	1,695,009	3,100,567	(4,289,294)	0	241,387	747,669
166 AEP Texas North Company - Generation	18,506,149	25,568,746	0	884,512	(1,499,716)	0	70,649	(544,555)
192 AEP Texas North Company - Transmission	9,467,219	11,776,747	373,496	473,047	(690,756)	0	36,142	191,929
AEP Texas North Co.	\$91,203,441	\$110,473,948	\$2,068,505	\$4,458,126	(\$6,479,766)	\$0	\$348,178	\$395,043
230 Kingsport Power Co - Distribution	\$12,736,464	\$14,200,255	\$257,578	\$626,395	(\$832,905)	\$0	\$48,623	\$99,691
260 Kingsport Power Co - Transmission	2,182,788	2,212,626	357	104,875	(129,780)	0	8,333	(16,215)
Kingsport Power Co.	\$14,919,252	\$16,412,881	\$257,935	\$731,270	(\$962,685)	\$0	\$56,956	\$83,476
210 Wheeling Power Co - Distribution	\$15,222,855	\$16,888,603	\$258,319	\$745,811	(\$990,588)	\$0	\$58,115	\$71,657
200 Wheeling Power Co - Transmission	591,518	895,939	0	27,886	(52,551)	0	2,258	(22,407)
Wheeling Power Co.	\$15,814,373	\$17,784,542	\$258,319	\$773,697	(\$1,043,139)	\$0	\$60,373	\$49,250
103 American Electric Power Service Corporation	\$1,427,676,432	\$1,568,360,277	\$32,563,685	\$70,476,303	(\$91,990,991)	\$0	\$5,450,296	\$16,499,291
American Electric Power Service Corp	\$1,427,676,432	\$1,568,360,277	\$32,563,685	\$70,476,303	(\$91,990,991)	\$0	\$5,450,296	\$16,499,291
143 AEP Pro Serv, Inc.	\$1,039,431	\$1,053,854	\$0	\$50,782	(\$61,813)	\$0	\$3,968	(\$7,063)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,509,615	2,543,814	0	122,620	(149,205)	0	9,581	(17,004)
Miscellaneous	\$3,549,046	\$3,597,668	\$0	\$173,402	(\$211,018)	\$0	\$13,549	(\$24,067)
270 Cook Coal Terminal	\$3,438,820	\$4,424,933	\$118,056	\$171,388	(\$259,541)	\$0	\$13,128	\$43,031
AEP Generating Company	\$3,438,820	\$4,424,933	\$118,056	\$171,388	(\$259,541)	\$0	\$13,128	\$43,031
104 Cardinal Operating Company	\$74,369,767	\$95,085,030	\$1,501,996	\$3,661,187	(\$5,577,141)	\$0	\$283,914	(\$130,044)
181 Ohio Power Co - Generation	281,366,857	387,748,016	3,453,746	13,707,297	(22,743,068)	0	1,074,145	(4,507,880)
AEP Generation Resources - FERC	\$355,736,624	\$482,833,046	\$4,955,742	\$17,368,484	(\$28,320,209)	\$0	\$1,358,059	(\$4,637,924)
290 Conesville Coal Preparation Company	3,044,894	4,519,772	0	146,142	(265,104)	0	11,624	(107,338)
AEP Generation Resources - SEC	\$358,781,518	\$487,352,818	\$4,955,742	\$17,514,626	(\$28,585,313)	\$0	\$1,369,683	(\$4,745,262)
175 AEP Energy Partners	8,970,195	10,768,924	693,583	476,788	(631,643)	0	34,245	\$72,973
AEP Energy Supply	\$367,751,713	\$498,121,742	\$5,649,325	\$17,991,414	(\$29,216,956)	\$0	\$1,403,928	(\$4,172,289)
293 Elmwood	\$3,071,209	\$6,024,607	\$298,746	\$161,714	(\$353,369)	\$0	\$11,725	\$118,816
292 AEP River Operations LLC	44,023,338	67,759,425	5,158,572	2,386,148	(3,974,378)	0	168,063	3,738,405
AEP River Operations	\$47,094,547	\$73,784,032	\$5,457,318	\$2,547,862	(\$4,327,747)	\$0	\$179,788	\$3,857,221
Total	\$4,533,931,842	\$5,237,596,160	\$103,793,268	\$223,431,153	(\$307,207,254)	\$0	\$17,308,724	\$37,325,889

American Electric Power System Retirement Plan

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2020 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$309,773,232	\$341,773,691	\$5,285,057	\$15,179,919	(\$20,042,698)	\$0	\$1,072,520	\$1,494,798
215 Appalachian Power Co - Generation	259,185,766	290,977,075	4,639,014	12,713,876	(17,063,822)	0	897,372	1,186,440
150 Appalachian Power Co - Transmission	28,403,728	28,843,077	16,999	1,367,746	(1,691,450)	0	98,342	(208,363)
Appalachian Power Co. - FERC	\$597,362,726	\$661,593,843	\$9,941,070	\$29,261,541	(\$38,797,970)	\$0	\$2,068,234	\$2,472,875
225 Cedar Coal Co	2,921,127	4,756,844	0	139,717	(278,956)	0	10,114	(129,125)
Appalachian Power Co. - SEC	\$600,283,853	\$666,350,687	\$9,941,070	\$29,401,258	(\$39,076,926)	\$0	\$2,078,348	\$2,343,750
211 AEP Texas Central Company - Distribution	\$260,648,401	\$306,983,115	\$5,803,491	\$12,755,992	(\$18,002,468)	\$0	\$902,437	\$1,459,452
147 AEP Texas Central Company - Generation	3,134,748	11,277,794	0	149,421	(661,366)	0	10,853	(501,092)
169 AEP Texas Central Company - Transmission	25,600,921	29,713,579	748,494	1,262,547	(1,742,499)	0	88,637	357,179
AEP Texas Central Co.	\$289,384,070	\$347,974,488	\$6,551,985	\$14,167,960	(\$20,406,333)	\$0	\$1,001,927	\$1,315,539
170 Indiana Michigan Power Co - Distribution	\$155,064,840	\$177,826,792	\$2,999,724	\$7,609,954	(\$10,428,329)	\$0	\$536,877	\$718,226
132 Indiana Michigan Power Co - Generation	105,948,686	118,343,480	2,121,140	5,212,697	(6,940,039)	0	366,824	760,622
190 Indiana Michigan Power Co - Nuclear	214,710,931	262,869,787	7,839,984	10,771,633	(15,415,522)	0	743,388	3,939,483
120 Indiana Michigan Power Co - Transmission	36,113,392	38,761,762	687,180	1,775,809	(2,273,113)	0	125,035	314,911
280 Ind Mich River Transp Lakin	31,325,017	38,944,658	1,022,234	1,553,040	(2,283,839)	0	108,456	399,891
Indiana Michigan Power Co. - FERC	\$543,162,866	\$636,746,479	\$14,670,262	\$26,923,133	(\$37,340,842)	\$0	\$1,880,580	\$6,133,133
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$543,162,866	\$636,746,479	\$14,670,262	\$26,923,133	(\$37,340,842)	\$0	\$1,880,580	\$6,133,133
110 Kentucky Power Co - Distribution	\$69,176,028	\$75,159,325	\$1,264,913	\$3,398,385	(\$4,407,582)	\$0	\$239,506	\$495,222
117 Kentucky Power Co - Generation	32,760,686	34,487,899	408,382	1,601,091	(2,022,480)	0	113,427	100,420
180 Kentucky Power Co - Transmission	3,108,005	3,162,725	3,930	150,372	(185,472)	0	10,761	(20,409)
600 Kentucky Power Co. - Kammer Actives	5,625,063	7,024,370	190,877	281,141	(411,931)	0	19,476	79,563
701 Kentucky Power Co. - Mitchell Actives	28,609,943	39,338,743	1,200,131	1,447,678	(2,306,949)	0	99,055	439,915
702 Kentucky Power Co. - Mitchell Inactives	24,467,230	31,893,400	0	1,177,529	(1,869,744)	0	84,712	(607,503)
Kentucky Power Co.	\$163,746,955	\$191,056,462	\$3,068,233	\$8,056,196	(\$11,204,158)	\$0	\$566,937	\$487,208
250 Ohio Power Co - Distribution	\$413,311,775	\$474,934,184	\$7,593,693	\$20,241,225	(\$27,851,653)	\$0	\$1,430,999	\$1,414,264
160 Ohio Power Co - Transmission	43,997,461	44,741,531	46,565	2,110,388	(2,623,786)	0	152,331	(314,502)
Ohio Power Co.	\$457,309,236	\$519,675,715	\$7,640,258	\$22,351,613	(\$30,475,439)	\$0	\$1,583,330	\$1,099,762
167 Public Service Co of Oklahoma - Distribution	\$148,890,926	\$180,594,444	\$4,095,813	\$7,344,984	(\$10,590,633)	\$0	\$515,501	\$1,365,665
198 Public Service Co of Oklahoma - Generation	74,794,576	93,543,928	2,574,905	3,689,305	(5,485,714)	0	258,959	1,037,455
114 Public Service Co of Oklahoma - Transmission	18,001,743	22,719,213	612,249	892,457	(1,332,327)	0	62,327	234,706
Public Service Co. of Oklahoma	\$241,687,245	\$296,857,585	\$7,282,967	\$11,926,746	(\$17,408,674)	\$0	\$836,787	\$2,637,826
159 Southwestern Electric Power Co - Distribution	\$92,458,699	\$115,871,963	\$3,240,674	\$4,590,205	(\$6,795,101)	\$0	\$320,117	\$1,355,895
168 Southwestern Electric Power Co - Generation	103,900,768	129,769,919	4,190,118	5,186,337	(7,610,121)	0	359,733	2,126,067
161 Southwestern Electric Power Co - Texas - Distribution	48,443,022	57,690,050	1,520,126	2,391,782	(3,383,128)	0	167,723	696,503
111 Southwestern Electric Power Co - Texas - Transmission	126,307	128,274	0	5,991	(7,522)	0	437	(1,094)
194 Southwestern Electric Power Co - Transmission	13,512,491	18,398,424	549,045	673,357	(1,078,942)	0	46,784	190,244
Southwestern Electric Power Co.	\$258,441,287	\$321,858,630	\$9,499,963	\$12,847,672	(\$18,874,814)	\$0	\$894,794	\$4,367,615
119 AEP Texas North Company - Distribution	63,021,105	74,234,832	1,731,454	3,097,515	(4,353,367)	0	218,196	693,798
166 AEP Texas North Company - Generation	18,444,988	25,481,941	0	882,415	(1,494,342)	0	63,862	(548,065)
192 AEP Texas North Company - Transmission	9,435,931	12,035,139	381,527	466,554	(705,779)	0	32,670	174,972
AEP Texas North Co.	\$90,902,024	\$111,751,912	\$2,112,981	\$4,446,484	(\$6,553,488)	\$0	\$314,728	\$320,705
230 Kingsport Power Co - Distribution	\$12,694,371	\$14,357,875	\$263,116	\$625,870	(\$841,992)	\$0	\$43,951	\$90,945
260 Kingsport Power Co - Transmission	2,175,574	2,205,114	364	104,602	(129,315)	0	7,532	(16,817)
Kingsport Power Co.	\$14,869,945	\$16,562,989	\$263,480	\$730,472	(\$971,307)	\$0	\$51,483	\$74,128
210 Wheeling Power Co - Distribution	\$15,172,546	\$17,037,894	\$263,874	\$743,808	(\$999,156)	\$0	\$52,532	\$61,058
200 Wheeling Power Co - Transmission	589,563	892,897	0	27,921	(52,362)	0	2,041	(22,400)
Wheeling Power Co.	\$15,762,109	\$17,930,791	\$263,874	\$771,729	(\$1,051,518)	\$0	\$54,573	\$38,658
103 American Electric Power Service Corporation	\$1,422,958,130	\$1,589,055,838	\$33,263,849	\$70,179,588	(\$93,187,298)	\$0	\$4,926,673	\$15,182,808
American Electric Power Service Corp	\$1,422,958,130	\$1,589,055,838	\$33,263,849	\$70,179,588	(\$93,187,298)	\$0	\$4,926,673	\$15,182,808
143 AEP Pro Serv, Inc.	\$1,035,996	\$1,050,276	\$0	\$50,618	(\$61,592)	\$0	\$3,587	(\$7,387)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,501,321	2,535,178	0	121,151	(148,671)	0	8,660	(18,860)
Miscellaneous	\$3,537,317	\$3,585,454	\$0	\$171,769	(\$210,263)	\$0	\$12,247	(\$26,247)
270 Cook Coal Terminal	\$3,427,455	\$4,504,050	\$120,594	\$171,136	(\$264,132)	\$0	\$11,867	\$39,465
AEP Generating Company	\$3,427,455	\$4,504,050	\$120,594	\$171,136	(\$264,132)	\$0	\$11,867	\$39,465
104 Cardinal Operating Company	\$74,123,984	\$95,962,094	\$1,534,291	\$3,646,072	(\$5,627,523)	\$0	\$256,638	(\$190,522)
181 Ohio Power Co - Generation	280,436,973	389,191,175	3,528,006	13,667,438	(22,823,410)	0	970,950	(4,657,016)
AEP Generation Resources - FERC	\$354,560,957	\$485,153,269	\$5,062,297	\$17,313,510	(\$28,450,933)	\$0	\$1,227,588	(\$4,847,538)
290 Conesville Coal Preparation Company	3,034,831	4,504,428	0	145,936	(264,154)	0	10,507	(107,711)
AEP Generation Resources - SEC	\$357,595,788	\$489,657,697	\$5,062,297	\$17,459,446	(\$28,715,087)	\$0	\$1,238,095	(\$4,955,249)
175 AEP Energy Partners	8,940,550	11,286,828	708,496	474,752	(661,896)	0	30,955	552,307
AEP Energy Supply	\$366,536,338	\$500,944,525	\$7,790,793	\$17,934,198	(\$29,376,983)	\$0	\$1,269,050	(\$4,402,942)
293 Elmwood	\$3,061,059	\$6,242,693	\$305,170	\$159,540	(\$366,091)	\$0	\$10,598	\$109,217
292 AEP River Operations LLC	43,877,846	71,651,562	5,269,488	2,376,599	(4,201,876)	0	151,917	3,596,128
AEP River Operations	\$46,938,905	\$77,894,255	\$5,574,658	\$2,536,139	(\$4,567,967)	\$0	\$162,515	\$3,705,345
Total	\$4,518,947,735	\$5,302,749,860	\$106,024,967	\$222,616,093	(\$310,970,142)	\$0	\$15,645,839	\$33,316,753

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2021 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$308,350,893	\$344,716,573	\$5,398,693	\$15,099,276	(\$20,201,679)	\$0	\$968,591	\$1,264,881
215 Appalachian Power Co - Generation	257,995,702	293,588,798	4,738,759	12,644,546	(17,205,400)	0	810,415	988,320
150 Appalachian Power Co - Transmission	28,273,311	28,764,644	17,365	1,352,949	(1,685,716)	0	88,812	(226,590)
Appalachian Power Co. - FERC	\$594,619,906	\$667,070,015	\$10,154,817	\$29,096,771	(\$39,092,795)	\$0	\$1,867,818	\$2,026,611
225 Cedar Coal Co	2,907,715	4,741,776	0	139,272	(277,886)	0	9,134	(129,480)
Appalachian Power Co. - SEC	\$597,527,621	\$671,811,791	\$10,154,817	\$29,236,043	(\$39,370,681)	\$0	\$1,876,952	\$1,897,131
211 AEP Texas Central Company - Distribution	\$259,451,622	\$310,431,673	\$5,928,274	\$12,680,872	(\$18,192,456)	\$0	\$814,989	\$1,231,679
147 AEP Texas Central Company - Generation	3,120,355	11,242,071	0	149,201	(658,827)	0	9,802	(499,824)
169 AEP Texas Central Company - Transmission	25,483,373	30,189,855	764,588	1,260,951	(1,769,238)	0	80,048	336,349
AEP Texas Central Co.	\$288,055,350	\$351,863,599	\$6,692,862	\$14,091,024	(\$20,620,521)	\$0	\$904,839	\$1,068,204
170 Indiana Michigan Power Co - Distribution	\$154,352,853	\$179,548,139	\$3,064,222	\$7,576,686	(\$10,522,192)	\$0	\$484,853	\$603,569
132 Indiana Michigan Power Co - Generation	105,462,218	119,583,980	2,166,747	5,183,360	(7,008,068)	0	331,278	673,317
190 Indiana Michigan Power Co - Nuclear	213,725,076	268,008,792	8,008,554	10,699,429	(15,706,316)	0	671,353	3,673,020
120 Indiana Michigan Power Co - Transmission	35,947,576	39,162,225	701,955	1,762,776	(2,295,053)	0	112,918	282,596
280 Ind Mich River Transp Lakin	31,181,186	39,600,079	1,044,213	1,553,868	(2,320,713)	0	97,946	375,314
Indiana Michigan Power Co. - FERC	\$540,668,909	\$645,903,215	\$14,985,691	\$26,776,119	(\$37,852,342)	\$0	\$1,698,348	\$5,607,816
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$540,668,909	\$645,903,215	\$14,985,691	\$26,776,119	(\$37,852,342)	\$0	\$1,698,348	\$5,607,816
110 Kentucky Power Co - Distribution	\$68,858,403	\$75,884,841	\$1,292,110	\$3,375,914	(\$4,447,135)	\$0	\$216,298	\$437,187
117 Kentucky Power Co - Generation	32,610,264	34,689,712	417,163	1,586,524	(2,032,947)	0	102,435	73,175
180 Kentucky Power Co - Transmission	3,093,735	3,155,749	4,014	149,685	(184,939)	0	9,718	(21,522)
600 Kentucky Power Co. - Kammer Actives	5,599,235	7,147,381	194,981	278,041	(418,863)	0	17,588	71,747
701 Kentucky Power Co. - Mitchell Actives	28,478,579	40,128,289	1,225,935	1,437,925	(2,351,668)	0	89,457	401,649
702 Kentucky Power Co. - Mitchell Inactives	24,354,887	31,782,407	0	1,164,465	(1,862,568)	0	76,504	(621,599)
Kentucky Power Co.	\$162,995,103	\$192,788,379	\$3,134,203	\$7,992,554	(\$11,298,120)	\$0	\$512,000	\$340,637
250 Ohio Power Co - Distribution	\$411,414,035	\$479,214,372	\$7,756,968	\$20,165,138	(\$28,083,752)	\$0	\$1,292,333	\$1,130,687
160 Ohio Power Co - Transmission	43,795,444	44,635,554	47,566	2,105,118	(2,615,810)	0	137,570	(325,556)
Ohio Power Co.	\$455,209,479	\$523,849,926	\$7,804,534	\$22,270,256	(\$30,699,562)	\$0	\$1,429,903	\$805,131
167 Public Service Co of Oklahoma - Distribution	\$148,207,286	\$183,142,083	\$4,183,879	\$7,276,653	(\$10,732,810)	\$0	\$465,548	\$1,193,270
198 Public Service Co of Oklahoma - Generation	74,451,153	95,209,022	2,630,269	3,684,539	(5,579,604)	0	233,866	969,070
114 Public Service Co of Oklahoma - Transmission	17,919,087	23,113,452	625,413	892,041	(1,354,535)	0	56,287	219,206
Public Service Co. of Oklahoma	\$240,577,526	\$301,464,557	\$7,439,561	\$11,853,233	(\$17,666,949)	\$0	\$755,701	\$2,381,546
159 Southwestern Electric Power Co - Distribution	\$92,034,170	\$117,973,603	\$3,310,352	\$4,568,557	(\$6,913,694)	\$0	\$289,098	\$1,254,313
168 Southwestern Electric Power Co - Generation	103,423,703	132,550,799	4,280,211	5,125,431	(7,767,972)	0	324,874	1,962,544
161 Southwestern Electric Power Co - Texas - Distribution	48,220,594	58,665,597	1,552,810	2,387,464	(3,438,023)	0	151,470	653,721
111 Southwestern Electric Power Co - Texas - Transmission	125,727	127,868	0	6,003	(7,494)	0	395	(1,096)
194 Southwestern Electric Power Co - Transmission	13,450,447	18,758,436	560,850	671,127	(1,099,314)	0	42,251	174,914
Southwestern Electric Power Co.	\$257,254,641	\$328,076,303	\$9,704,223	\$12,758,582	(\$19,226,497)	\$0	\$808,088	\$4,044,396
119 AEP Texas North Company - Distribution	62,731,741	75,318,443	1,768,682	3,087,515	(4,413,942)	0	197,053	639,308
166 AEP Texas North Company - Generation	18,360,297	25,401,225	0	879,467	(1,488,607)	0	57,673	(551,467)
192 AEP Texas North Company - Transmission	9,392,605	12,287,538	389,730	468,628	(720,096)	0	29,504	167,766
AEP Texas North Co.	\$90,484,643	\$113,007,206	\$2,158,412	\$4,435,610	(\$6,622,645)	\$0	\$284,230	\$255,607
230 Kingsport Power Co - Distribution	\$12,636,084	\$14,513,175	\$268,773	\$623,112	(\$850,526)	\$0	\$39,692	\$81,051
260 Kingsport Power Co - Transmission	2,165,585	2,198,129	372	103,599	(128,819)	0	6,803	(18,045)
Kingsport Power Co.	\$14,801,669	\$16,711,304	\$269,145	\$726,711	(\$979,345)	\$0	\$46,495	\$63,006
210 Wheeling Power Co - Distribution	\$15,102,880	\$17,184,705	\$269,547	\$735,725	(\$1,007,088)	\$0	\$47,441	\$45,625
200 Wheeling Power Co - Transmission	586,856	890,069	0	27,922	(52,161)	0	1,843	(22,396)
Wheeling Power Co.	\$15,689,736	\$18,074,774	\$269,547	\$763,647	(\$1,059,249)	\$0	\$49,284	\$23,229
103 American Electric Power Service Corporation	\$1,416,424,547	\$1,609,360,139	\$33,979,067	\$69,787,639	(\$94,314,512)	\$0	\$4,449,270	\$13,901,463
American Electric Power Service Corp	\$1,416,424,547	\$1,609,360,139	\$33,979,067	\$69,787,639	(\$94,314,512)	\$0	\$4,449,270	\$13,901,463
143 AEP Pro Serv, Inc.	\$1,031,239	\$1,046,950	\$0	\$50,389	(\$61,355)	\$0	\$3,239	(\$7,727)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,489,836	2,527,148	0	121,631	(148,100)	0	7,821	(18,648)
Miscellaneous	\$3,521,075	\$3,574,098	\$0	\$172,020	(\$209,455)	\$0	\$11,060	(\$26,375)
270 Cook Coal Terminal	\$3,411,718	\$4,581,807	\$123,187	\$170,623	(\$268,511)	\$0	\$10,717	\$36,016
AEP Generating Company	\$3,411,718	\$4,581,807	\$123,187	\$170,623	(\$268,511)	\$0	\$10,717	\$36,016
104 Cardinal Operating Company	\$73,783,640	\$96,827,059	\$1,567,280	\$3,629,581	(\$5,674,427)	\$0	\$231,769	(\$245,797)
181 Ohio Power Co - Generation	279,149,333	390,646,091	3,603,863	13,601,463	(22,893,320)	0	876,863	(4,811,131)
AEP Generation Resources - FERC	\$352,932,973	\$487,473,150	\$5,171,143	\$17,231,044	(\$28,567,747)	\$0	\$1,108,632	(\$5,056,928)
290 Conesville Coal Preparation Company	3,020,896	4,490,160	0	146,062	(263,140)	0	9,489	(107,589)
AEP Generation Resources - SEC	\$355,953,869	\$491,963,310	\$5,171,143	\$17,377,106	(\$28,830,887)	\$0	\$1,118,121	(\$5,164,517)
175 AEP Energy Partners	8,899,499	11,791,051	723,730	472,604	(691,000)	0	27,955	533,289
AEP Energy Supply	\$364,853,368	\$503,754,361	\$5,894,873	\$17,849,710	(\$29,521,887)	\$0	\$1,146,076	(\$4,631,228)
293 Elmwood	\$3,047,004	\$6,455,640	\$311,731	\$160,045	(\$378,325)	\$0	\$9,571	\$103,022
292 AEP River Operations LLC	43,676,379	75,438,665	5,382,789	2,343,076	(4,420,988)	0	137,196	3,442,073
AEP River Operations	\$46,723,383	\$81,894,305	\$5,694,520	\$2,503,121	(\$4,799,313)	\$0	\$146,767	\$3,545,095
Total	\$4,498,198,768	\$5,366,715,764	\$108,304,642	\$221,386,892	(\$314,509,589)	\$0	\$14,129,730	\$29,311,674

American Electric Power System Retirement Plan

AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2022 NET PERIODIC PENSION COST

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$306,152,140	\$347,271,084	\$5,514,772	\$14,987,681	(\$20,359,468)	\$0	\$876,931	\$1,019,916
215 Appalachian Power Co - Generation	256,156,016	295,866,747	4,840,648	12,543,428	(17,345,785)	0	733,724	772,015
150 Appalachian Power Co - Transmission	28,071,702	28,662,634	17,738	1,352,325	(1,680,405)	0	80,408	(229,934)
Appalachian Power Co. - FERC	\$590,379,858	\$671,800,465	\$10,373,158	\$28,883,434	(\$39,385,658)	\$0	\$1,691,063	\$1,561,997
225 Cedar Coal Co	2,886,981	4,722,926	0	138,402	(276,891)	0	8,269	(130,220)
Appalachian Power Co. - SEC	\$593,266,839	\$676,523,391	\$10,373,158	\$29,021,836	(\$39,662,549)	\$0	\$1,699,332	\$1,431,777
211 AEP Texas Central Company - Distribution	\$257,601,554	\$313,507,925	\$6,055,740	\$12,620,096	(\$18,380,035)	\$0	\$737,864	\$1,033,665
147 AEP Texas Central Company - Generation	3,098,105	11,197,380	0	148,579	(656,469)	0	8,874	(499,016)
169 AEP Texas Central Company - Transmission	25,301,669	30,625,870	781,028	1,250,471	(1,795,503)	0	72,473	308,469
AEP Texas Central Co.	\$286,001,318	\$355,331,175	\$6,836,768	\$14,019,146	(\$20,832,007)	\$0	\$819,211	\$843,118
170 Indiana Michigan Power Co - Distribution	\$153,252,211	\$181,062,125	\$3,130,107	\$7,525,819	(\$10,615,132)	\$0	\$438,970	\$479,764
132 Indiana Michigan Power Co - Generation	104,710,200	120,683,770	2,213,335	5,139,917	(7,075,329)	0	299,928	577,851
190 Indiana Michigan Power Co - Nuclear	212,201,069	272,765,718	8,180,749	10,590,112	(15,991,441)	0	607,821	3,387,241
120 Indiana Michigan Power Co - Transmission	35,691,245	39,516,841	717,048	1,751,345	(2,316,755)	0	102,233	253,871
280 Ind Mich River Transp Lakin	30,958,843	40,201,934	1,066,665	1,542,462	(2,356,919)	0	88,677	340,885
Indiana Michigan Power Co. - FERC	\$536,813,568	\$654,230,388	\$15,307,904	\$26,549,655	(\$38,355,576)	\$0	\$1,537,629	\$5,039,612
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$536,813,568	\$654,230,388	\$15,307,904	\$26,549,655	(\$38,355,576)	\$0	\$1,537,629	\$5,039,612
110 Kentucky Power Co - Distribution	\$68,367,395	\$76,522,473	\$1,319,892	\$3,354,222	(\$4,486,284)	\$0	\$195,829	\$383,659
117 Kentucky Power Co - Generation	32,377,730	34,855,229	426,132	1,579,669	(2,043,458)	0	92,742	55,085
180 Kentucky Power Co - Transmission	3,071,674	3,146,108	4,101	145,593	(184,447)	0	8,798	(25,955)
600 Kentucky Power Co. - Kammer Actives	5,559,309	7,260,516	199,173	276,886	(425,662)	0	15,924	66,321
701 Kentucky Power Co. - Mitchell Actives	28,275,507	40,860,157	1,252,295	1,424,892	(2,395,509)	0	80,991	362,669
702 Kentucky Power Co. - Mitchell Inactives	24,181,220	31,656,061	0	1,165,822	(1,855,900)	0	69,264	(620,814)
Kentucky Power Co.	\$161,832,835	\$194,300,544	\$3,201,593	\$7,947,084	(\$11,391,260)	\$0	\$463,548	\$220,965
250 Ohio Power Co - Distribution	\$408,480,370	\$482,948,756	\$7,923,753	\$20,015,130	(\$28,313,845)	\$0	\$1,170,036	\$795,074
160 Ohio Power Co - Transmission	43,483,153	44,492,954	48,589	2,091,822	(2,608,489)	0	50,991	193,964
Ohio Power Co.	\$451,963,523	\$527,441,710	\$7,972,342	\$22,106,952	(\$30,922,334)	\$0	\$1,294,588	\$451,548
167 Public Service Co of Oklahoma - Distribution	\$147,150,467	\$185,455,504	\$4,273,838	\$7,250,748	(\$10,872,703)	\$0	\$421,492	\$1,073,375
198 Public Service Co of Oklahoma - Generation	73,920,265	96,742,524	2,686,823	3,659,049	(5,671,726)	0	211,734	885,880
114 Public Service Co of Oklahoma - Transmission	17,791,312	23,475,974	638,860	880,469	(1,376,326)	0	50,961	193,964
Public Service Co. of Oklahoma	\$238,862,044	\$305,674,002	\$7,599,521	\$11,790,266	(\$17,920,755)	\$0	\$684,187	\$2,153,219
159 Southwestern Electric Power Co - Distribution	\$91,377,903	\$119,911,665	\$3,381,530	\$4,523,643	(\$7,030,063)	\$0	\$261,739	\$1,136,849
168 Southwestern Electric Power Co - Generation	102,686,221	135,135,749	4,372,242	5,102,404	(7,922,606)	0	294,131	1,846,171
161 Southwestern Electric Power Co - Texas - Distribution	47,876,748	59,561,138	1,586,198	2,361,165	(3,491,892)	0	137,136	592,607
111 Southwestern Electric Power Co - Texas - Transmission	124,830	127,359	0	5,996	(7,467)	0	358	(1,113)
194 Southwestern Electric Power Co - Transmission	13,354,536	19,091,814	572,909	665,154	(1,119,296)	0	38,252	157,019
Southwestern Electric Power Co.	\$255,420,238	\$333,827,725	\$9,912,879	\$12,658,362	(\$19,571,324)	\$0	\$731,616	\$3,731,533
119 AEP Texas North Company - Distribution	62,284,420	76,304,575	1,806,711	3,063,853	(4,473,510)	0	178,405	575,459
166 AEP Texas North Company - Generation	18,229,375	25,300,246	0	872,187	(1,483,278)	0	52,216	(568,875)
192 AEP Texas North Company - Transmission	9,325,629	12,521,787	398,110	465,641	(734,115)	0	26,712	156,348
AEP Texas North Co.	\$89,839,424	\$114,126,608	\$2,204,821	\$4,401,681	(\$6,690,903)	\$0	\$257,333	\$172,932
230 Kingsport Power Co - Distribution	\$12,545,980	\$14,650,744	\$274,552	\$617,988	(\$858,929)	\$0	\$35,936	\$69,547
260 Kingsport Power Co - Transmission	2,150,143	2,189,391	380	103,545	(128,357)	0	6,159	(18,273)
Kingsport Power Co.	\$14,696,123	\$16,840,135	\$274,932	\$721,533	(\$987,286)	\$0	\$42,095	\$51,274
210 Wheeling Power Co - Distribution	\$14,995,186	\$17,312,380	\$275,343	\$735,126	(\$1,014,973)	\$0	\$42,952	\$38,448
200 Wheeling Power Co - Transmission	582,671	886,530	0	27,851	(51,975)	0	1,669	(22,455)
Wheeling Power Co.	\$15,577,857	\$18,198,910	\$275,343	\$762,977	(\$1,066,948)	\$0	\$44,621	\$15,993
103 American Electric Power Service Corporation	\$1,406,324,468	\$1,627,668,423	\$34,709,663	\$69,326,598	(\$95,425,346)	\$0	\$4,028,227	\$12,639,145
American Electric Power Service Corp	\$1,406,324,468	\$1,627,668,423	\$34,709,663	\$69,326,598	(\$95,425,346)	\$0	\$4,028,227	\$12,639,145
143 AEP Pro Serv, Inc.	\$1,023,885	\$1,042,788	\$0	\$49,792	(\$61,136)	\$0	\$2,933	(\$8,411)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,472,082	2,517,102	0	120,758	(147,570)	0	7,081	(19,731)
Miscellaneous	\$3,495,967	\$3,559,890	\$0	\$170,550	(\$208,706)	\$0	\$10,014	(\$28,142)
270 Cook Coal Terminal	\$3,387,390	\$4,652,877	\$125,836	\$169,106	(\$272,784)	\$0	\$9,703	\$31,861
AEP Generating Company	\$3,387,390	\$4,652,877	\$125,836	\$169,106	(\$272,784)	\$0	\$9,703	\$31,861
104 Cardinal Operating Company	\$73,257,512	\$97,581,782	\$1,600,979	\$3,598,905	(\$5,720,929)	\$0	\$208,836	(\$311,209)
181 Ohio Power Co - Generation	277,158,807	391,713,593	3,681,351	13,509,521	(22,965,000)	0	793,883	(4,980,245)
AEP Generation Resources - FERC	\$350,416,319	\$489,295,375	\$5,282,330	\$17,108,426	(\$28,685,929)	\$0	\$1,003,719	(\$5,291,454)
290 Conesville Coal Preparation Company	2,999,355	4,472,310	0	145,606	(262,198)	0	8,591	(108,001)
AEP Generation Resources - SEC	\$353,415,674	\$493,767,685	\$5,282,330	\$17,254,032	(\$28,948,127)	\$0	\$1,012,310	(\$5,399,455)
175 AEP Energy Partners	8,836,040	12,270,447	739,291	469,586	(719,380)	0	25,310	514,807
AEP Energy Supply	\$362,251,714	\$506,038,132	\$6,021,621	\$17,723,618	(\$29,667,507)	\$0	\$1,037,620	(\$4,884,648)
293 Elmwood	\$3,025,277	\$6,656,454	\$318,434	\$158,762	(\$390,248)	\$0	\$8,665	\$95,613
292 AEP River Operations LLC	43,364,937	79,052,037	5,498,526	2,352,377	(4,634,585)	0	124,213	3,340,531
AEP River Operations	\$46,390,214	\$85,708,491	\$5,816,960	\$2,511,139	(\$5,024,833)	\$0	\$132,878	\$3,436,144
Total	\$4,466,123,522	\$5,424,122,401	\$110,633,341	\$219,880,503	(\$318,000,118)	\$0	\$12,792,602	\$25,306,331

**AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2023 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$303,957,105	\$350,177,752	\$5,633,347	\$14,894,282	(\$20,534,563)	\$0	\$789,974	\$783,040
215 Appalachian Power Co - Generation	254,319,441	298,442,224	4,944,729	12,459,929	(17,500,771)	0	660,968	564,855
150 Appalachian Power Co - Transmission	27,870,435	28,598,223	18,119	1,337,831	(1,677,011)	0	72,434	(248,627)
Appalachian Power Co. - FERC	\$586,146,981	\$677,218,199	\$10,596,195	\$28,692,042	(\$39,712,345)	\$0	\$1,523,376	\$1,099,268
225 Cedar Coal Co	2,866,282	4,710,251	0	137,588	(276,211)	0	7,449	(131,174)
Appalachian Power Co. - SEC	\$589,013,263	\$681,928,450	\$10,596,195	\$28,829,630	(\$39,988,556)	\$0	\$1,530,825	\$968,094
211 AEP Texas Central Company - Distribution	\$255,754,614	\$316,881,906	\$6,185,947	\$12,534,994	(\$18,582,081)	\$0	\$664,698	\$803,558
147 AEP Texas Central Company - Generation	3,075,892	11,167,330	0	147,943	(654,857)	0	7,994	(498,920)
169 AEP Texas Central Company - Transmission	25,120,252	31,087,191	797,821	1,239,283	(1,822,965)	0	65,287	279,426
AEP Texas Central Co.	\$283,950,758	\$359,136,427	\$6,983,768	\$13,922,220	(\$21,059,903)	\$0	\$737,979	\$584,064
170 Indiana Michigan Power Co - Distribution	\$152,153,430	\$182,755,121	\$3,197,409	\$7,461,593	(\$10,716,833)	\$0	\$395,442	\$337,611
132 Indiana Michigan Power Co - Generation	103,959,453	121,900,767	2,260,925	5,097,731	(7,148,310)	0	270,187	480,533
190 Indiana Michigan Power Co - Nuclear	210,679,640	277,728,748	8,356,646	10,528,866	(16,286,125)	0	547,549	3,146,936
120 Indiana Michigan Power Co - Transmission	35,435,347	39,909,819	732,466	1,734,165	(2,340,328)	0	92,095	218,398
280 Ind Mich River Transp Lakin	30,736,876	40,836,334	1,089,600	1,532,351	(2,394,659)	0	79,884	307,176
Indiana Michigan Power Co. - FERC	\$532,964,746	\$663,130,789	\$15,637,046	\$26,354,706	(\$38,886,255)	\$0	\$1,385,157	\$4,490,654
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$532,964,746	\$663,130,789	\$15,637,046	\$26,354,706	(\$38,886,255)	\$0	\$1,385,157	\$4,490,654
110 Kentucky Power Co - Distribution	\$67,877,218	\$77,235,936	\$1,348,272	\$3,330,226	(\$4,529,146)	\$0	\$176,411	\$325,763
117 Kentucky Power Co - Generation	32,145,590	35,058,466	435,295	1,560,612	(2,055,842)	0	83,545	23,610
180 Kentucky Power Co - Transmission	3,049,651	3,140,445	4,189	147,638	(184,157)	0	7,926	(24,404)
600 Kentucky Power Co. - Kammer Actives	5,519,450	7,379,341	203,456	266,678	(432,727)	0	14,345	51,752
701 Kentucky Power Co. - Mitchell Actives	28,072,779	41,622,064	1,279,221	1,410,574	(2,440,734)	0	72,960	322,021
702 Kentucky Power Co. - Mitchell Inactives	24,007,847	31,571,106	0	1,158,557	(1,851,342)	0	62,396	(630,389)
Kentucky Power Co.	\$160,672,535	\$196,007,358	\$3,270,433	\$7,874,285	(\$11,493,948)	\$0	\$417,583	\$68,353
250 Ohio Power Co - Distribution	\$405,551,667	\$487,168,408	\$8,094,124	\$19,898,884	(\$28,567,750)	\$0	\$1,054,015	\$479,273
160 Ohio Power Co - Transmission	43,171,389	44,407,606	49,633	2,076,485	(2,604,080)	0	112,201	(365,761)
Ohio Power Co.	\$448,723,056	\$531,576,014	\$8,143,757	\$21,975,369	(\$31,171,830)	\$0	\$1,166,216	\$113,512
167 Public Service Co of Oklahoma - Distribution	\$146,095,434	\$187,933,209	\$4,365,731	\$7,198,172	(\$11,020,478)	\$0	\$379,697	\$923,122
198 Public Service Co of Oklahoma - Generation	73,390,275	98,353,214	2,744,593	3,630,545	(5,767,472)	0	190,739	798,405
114 Public Service Co of Oklahoma - Transmission	17,663,752	23,857,789	652,597	880,302	(1,399,030)	0	45,908	179,777
Public Service Co. of Oklahoma	\$237,149,461	\$310,144,212	\$7,762,921	\$11,709,019	(\$18,186,980)	\$0	\$616,344	\$1,901,304
159 Southwestern Electric Power Co - Distribution	\$90,722,746	\$121,943,914	\$3,454,237	\$4,507,246	(\$7,150,840)	\$0	\$235,785	\$1,046,428
168 Southwestern Electric Power Co - Generation	101,949,986	137,816,607	4,466,251	5,066,539	(8,081,621)	0	264,965	1,716,134
161 Southwestern Electric Power Co - Texas - Distribution	47,533,483	60,505,691	1,620,303	2,350,609	(3,548,078)	0	123,538	546,372
111 Southwestern Electric Power Co - Texas - Transmission	123,935	127,017	0	5,985	(7,448)	0	322	(1,141)
194 Southwestern Electric Power Co - Transmission	13,258,788	19,439,523	585,228	662,756	(1,139,941)	0	34,459	142,502
Southwestern Electric Power Co.	\$253,588,938	\$339,832,752	\$10,126,019	\$12,593,135	(\$19,927,928)	\$0	\$659,069	\$3,450,295
119 AEP Texas North Company - Distribution	61,837,857	77,357,796	1,845,558	3,031,968	(4,536,292)	0	160,715	501,949
166 AEP Texas North Company - Generation	18,098,675	25,232,349	0	869,344	(1,479,635)	0	47,038	(563,253)
192 AEP Texas North Company - Transmission	9,258,767	12,765,498	406,670	458,351	(748,574)	0	24,063	140,510
AEP Texas North Co.	\$89,195,299	\$115,355,643	\$2,252,228	\$4,359,663	(\$6,764,501)	\$0	\$231,816	\$79,206
230 Kingsport Power Co - Distribution	\$12,456,029	\$14,802,559	\$280,456	\$611,037	(\$868,028)	\$0	\$32,373	\$55,838
260 Kingsport Power Co - Transmission	2,134,727	2,183,515	388	102,884	(128,042)	0	5,548	(19,222)
Kingsport Power Co.	\$14,590,756	\$16,986,074	\$280,844	\$713,921	(\$996,070)	\$0	\$37,921	\$36,616
210 Wheeling Power Co - Distribution	\$14,887,674	\$17,457,746	\$281,263	\$729,793	(\$1,023,729)	\$0	\$38,693	\$26,020
200 Wheeling Power Co - Transmission	578,493	884,151	0	27,779	(51,847)	0	1,503	(22,565)
Wheeling Power Co.	\$15,466,167	\$18,341,897	\$281,263	\$757,572	(\$1,075,576)	\$0	\$40,196	\$3,455
103 American Electric Power Service Corporation	\$1,396,241,468	\$1,647,462,126	\$35,455,968	\$68,802,093	(\$96,607,836)	\$0	\$3,628,785	\$11,279,010
American Electric Power Service Corp	\$1,396,241,468	\$1,647,462,126	\$35,455,968	\$68,802,093	(\$96,607,836)	\$0	\$3,628,785	\$11,279,010
143 AEP Pro Serv, Inc.	\$1,016,544	\$1,039,989	\$0	\$49,201	(\$60,985)	\$0	\$2,642	(\$9,142)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,454,358	2,510,347	0	118,668	(147,208)	0	6,379	(22,161)
Miscellaneous	\$3,470,902	\$3,550,336	\$0	\$167,869	(\$208,193)	\$0	\$9,021	(\$31,303)
270 Cook Coal Terminal	\$3,363,103	\$4,727,963	\$128,541	\$168,525	(\$277,250)	\$0	\$8,741	\$28,557
AEP Generating Company	\$3,363,103	\$4,727,963	\$128,541	\$168,525	(\$277,250)	\$0	\$8,741	\$28,557
104 Cardinal Operating Company	\$72,732,274	\$98,434,032	\$1,635,402	\$3,576,826	(\$5,772,211)	\$0	\$189,029	(\$370,954)
181 Ohio Power Co - Generation	275,171,646	393,224,925	3,760,505	13,417,639	(23,058,866)	0	715,162	(5,165,560)
AEP Generation Resources - FERC	\$347,903,920	\$491,658,957	\$5,395,907	\$16,994,465	(\$28,831,077)	\$0	\$904,191	(\$5,536,514)
290 Conesville Coal Preparation Company	2,977,851	4,460,308	0	144,615	(261,554)	0	7,739	(109,200)
AEP Generation Resources - SEC	\$350,881,771	\$496,119,265	\$5,395,907	\$17,139,080	(\$29,092,631)	\$0	\$911,930	(\$5,645,714)
175 AEP Energy Partners	8,772,687	12,751,836	755,187	466,206	(747,773)	0	22,800	496,420
AEP Energy Supply	\$359,654,458	\$508,871,101	\$6,151,094	\$17,605,286	(\$29,840,404)	\$0	\$934,730	(\$5,149,294)
293 Elmwood	\$3,003,586	\$6,860,304	\$325,281	\$157,621	(\$402,291)	\$0	\$7,806	\$88,417
292 AEP River Operations LLC	43,054,021	62,667,396	5,616,752	2,338,338	(4,847,649)	0	111,896	3,219,337
AEP River Operations	\$46,057,607	\$69,527,700	\$5,942,033	\$2,495,959	(\$5,249,940)	\$0	\$119,702	\$3,307,754
Total	\$4,434,102,517	\$5,486,578,842	\$113,012,110	\$218,329,252	(\$321,735,170)	\$0	\$11,524,085	\$21,130,277

American Electric Power System Retirement Plan

AMERICAN ELECTRIC POWER
QUALIFIED RETIREMENT PLAN
ESTIMATED 2024 NET PERIODIC PENSION COST

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$301,627,144	\$353,319,891	\$5,754,472	\$14,781,037	(\$20,723,253)	\$0	\$708,312	\$520,568
215 Appalachian Power Co - Generation	252,369,974	301,216,590	5,051,047	12,360,691	(17,667,240)	0	592,642	337,140
150 Appalachian Power Co - Transmission	27,656,797	28,559,410	18,509	1,333,069	(1,675,094)	0	64,947	(258,569)
Appalachian Power Co. - FERC	\$581,653,915	\$683,095,891	\$10,824,028	\$28,474,797	(\$40,065,587)	\$0	\$1,365,901	\$599,139
225 Cedar Coal Co	2,844,311	4,701,880	0	136,796	(275,779)	0	6,679	(132,304)
Appalachian Power Co. - SEC	\$584,498,226	\$687,797,771	\$10,824,028	\$28,611,593	(\$40,341,366)	\$0	\$1,372,580	\$466,835
211 AEP Texas Central Company - Distribution	\$253,794,146	\$320,452,857	\$6,318,953	\$12,447,453	(\$18,795,504)	\$0	\$595,986	\$566,888
147 AEP Texas Central Company - Generation	3,052,314	11,147,484	0	147,220	(653,833)	0	7,168	(499,445)
169 AEP Texas Central Company - Transmission	24,927,695	31,565,053	814,975	1,235,237	(1,851,383)	0	58,538	257,367
AEP Texas Central Co.	\$281,774,155	\$363,165,394	\$7,133,928	\$13,829,910	(\$21,300,720)	\$0	\$661,692	\$324,810
170 Indiana Michigan Power Co - Distribution	\$150,987,109	\$184,566,777	\$3,266,157	\$7,418,537	(\$10,825,385)	\$0	\$354,564	\$213,873
132 Indiana Michigan Power Co - Generation	103,162,560	123,194,718	2,309,538	5,064,178	(7,225,733)	0	242,257	390,240
190 Indiana Michigan Power Co - Nuclear	209,064,691	282,819,815	8,536,326	10,458,352	(16,588,215)	0	490,948	2,897,411
120 Indiana Michigan Power Co - Transmission	35,163,720	40,328,633	748,215	1,722,509	(2,365,393)	0	82,575	187,906
280 Ind Mich River Transp Lakin	30,501,265	41,491,699	1,113,028	1,518,061	(2,433,610)	0	71,626	269,105
Indiana Michigan Power Co. - FERC	\$528,879,345	\$672,401,642	\$15,973,264	\$26,181,637	(\$39,438,336)	\$0	\$1,241,970	\$3,958,535
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$528,879,345	\$672,401,642	\$15,973,264	\$26,181,637	(\$39,438,336)	\$0	\$1,241,970	\$3,958,535
110 Kentucky Power Co - Distribution	\$67,356,910	\$77,999,423	\$1,377,261	\$3,305,737	(\$4,574,896)	\$0	\$158,175	\$266,277
117 Kentucky Power Co - Generation	31,899,180	35,287,070	444,654	1,551,526	(2,069,691)	0	74,909	1,398
180 Kentucky Power Co - Transmission	3,026,274	3,137,533	4,279	146,506	(184,026)	0	7,107	(26,134)
600 Kentucky Power Co. - Kammer Actives	5,477,141	7,502,340	207,830	270,884	(440,034)	0	12,862	51,542
701 Kentucky Power Co. - Mitchell Actives	27,857,589	42,402,804	1,306,726	1,384,639	(2,487,049)	0	65,418	269,734
702 Kentucky Power Co. - Mitchell Inactives	23,823,817	31,515,000	0	1,150,446	(1,848,448)	0	55,946	(642,056)
Kentucky Power Co.	\$159,440,911	\$197,844,170	\$3,340,750	\$7,809,738	(\$11,604,144)	\$0	\$374,417	(\$79,239)
250 Ohio Power Co - Distribution	\$402,442,940	\$491,711,792	\$8,268,159	\$19,766,866	(\$28,840,345)	\$0	\$945,059	\$139,739
160 Ohio Power Co - Transmission	42,840,462	44,362,049	50,700	2,066,191	(2,601,965)	0	100,602	(384,472)
Ohio Power Co.	\$445,283,402	\$536,073,841	\$8,318,859	\$21,833,057	(\$31,442,310)	\$0	\$1,045,661	(\$244,733)
167 Public Service Co of Oklahoma - Distribution	\$144,975,550	\$190,516,977	\$4,459,600	\$7,141,204	(\$11,174,382)	\$0	\$340,447	\$766,869
198 Public Service Co of Oklahoma - Generation	72,827,707	100,012,614	2,803,606	3,610,269	(5,866,034)	0	171,022	718,863
114 Public Service Co of Oklahoma - Transmission	17,528,352	24,251,752	666,628	871,430	(1,422,437)	0	41,162	156,783
Public Service Co. of Oklahoma	\$235,331,609	\$314,781,343	\$7,929,834	\$11,622,903	(\$18,462,853)	\$0	\$552,631	\$1,642,515
159 Southwestern Electric Power Co - Distribution	\$90,027,318	\$124,035,784	\$3,528,508	\$4,464,825	(\$7,275,064)	\$0	\$211,412	\$929,681
168 Southwestern Electric Power Co - Generation	101,168,496	140,556,163	4,562,282	5,032,159	(8,244,033)	0	237,574	1,587,982
161 Southwestern Electric Power Co - Texas - Distribution	47,169,119	61,481,062	1,655,142	2,334,843	(3,606,045)	0	110,767	494,707
111 Southwestern Electric Power Co - Texas - Transmission	122,985	126,792	0	5,969	(7,437)	0	289	(1,179)
194 Southwestern Electric Power Co - Transmission	13,157,153	19,795,967	597,811	656,392	(1,161,092)	0	30,897	124,008
Southwestern Electric Power Co.	\$251,645,071	\$345,995,768	\$10,343,743	\$12,494,188	(\$20,293,671)	\$0	\$590,939	\$3,135,199
119 AEP Texas North Company - Distribution	61,363,843	78,453,342	1,885,240	3,018,209	(4,601,520)	0	144,101	446,030
166 AEP Texas North Company - Generation	17,959,941	25,187,507	0	858,066	(1,477,321)	0	42,175	(577,080)
192 AEP Texas North Company - Transmission	9,187,794	13,014,371	415,414	453,753	(763,331)	0	21,576	127,412
AEP Texas North Co.	\$88,511,578	\$116,655,220	\$2,300,654	\$4,330,028	(\$6,842,172)	\$0	\$207,852	(\$3,638)
230 Kingsport Power Co - Distribution	\$12,360,548	\$14,963,741	\$286,486	\$608,505	(\$877,667)	\$0	\$29,026	\$46,350
260 Kingsport Power Co - Transmission	2,118,363	2,179,635	397	102,181	(127,842)	0	4,975	(20,289)
Kingsport Power Co.	\$14,478,911	\$17,143,376	\$286,883	\$710,686	(\$1,005,509)	\$0	\$34,001	\$26,061
210 Wheeling Power Co - Distribution	\$14,773,554	\$17,614,877	\$287,311	\$724,625	(\$1,033,164)	\$0	\$34,693	\$13,465
200 Wheeling Power Co - Transmission	574,059	882,580	0	27,693	(51,766)	0	1,348	(22,725)
Wheeling Power Co.	\$15,347,613	\$18,497,457	\$287,311	\$752,318	(\$1,084,930)	\$0	\$36,041	(\$9,260)
103 American Electric Power Service Corporation	\$1,385,538,682	\$1,668,229,682	\$36,218,320	\$68,213,873	(\$97,846,588)	\$0	\$3,253,668	\$9,839,273
American Electric Power Service Corp	\$1,385,538,682	\$1,668,229,682	\$36,218,320	\$68,213,873	(\$97,846,588)	\$0	\$3,253,668	\$9,839,273
143 AEP Pro Serv, Inc.	\$1,008,752	\$1,038,141	\$0	\$48,828	(\$60,890)	\$0	\$2,369	(\$9,693)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,435,544	2,505,885	0	114,443	(146,978)	0	5,719	(26,816)
Miscellaneous	\$3,444,296	\$3,544,026	\$0	\$163,271	(\$207,868)	\$0	\$8,088	(\$36,509)
270 Cook Coal Terminal	\$3,337,323	\$4,805,632	\$131,305	\$167,232	(\$281,864)	\$0	\$7,837	\$24,510
AEP Generating Company	\$3,337,323	\$4,805,632	\$131,305	\$167,232	(\$281,864)	\$0	\$7,837	\$24,510
104 Cardinal Operating Company	\$72,174,750	\$99,352,007	\$1,670,565	\$3,545,407	(\$5,827,288)	\$0	\$169,488	(\$441,828)
181 Ohio Power Co - Generation	273,062,338	395,038,857	3,841,361	13,328,597	(23,170,193)	0	641,234	(5,359,001)
AEP Generation Resources - FERC	\$345,237,088	\$494,390,864	\$5,511,926	\$16,874,004	(\$28,997,481)	\$0	\$810,722	(\$5,800,829)
290 Conesville Coal Preparation Company	2,955,024	4,452,381	0	143,554	(261,145)	0	6,939	(110,652)
AEP Generation Resources - SEC	\$348,192,112	\$498,843,245	\$5,511,926	\$17,017,558	(\$29,258,626)	\$0	\$817,661	(\$5,911,481)
175 AEP Energy Partners	8,705,441	13,233,593	771,425	460,470	(776,189)	0	20,443	476,149
AEP Energy Supply	\$356,897,553	\$512,076,838	\$6,283,351	\$17,478,028	(\$30,034,815)	\$0	\$838,104	(\$5,435,332)
293 Elmwood	\$2,980,563	\$7,065,626	\$332,275	\$155,484	(\$414,420)	\$0	\$6,999	\$80,338
292 AEP River Operations LLC	42,723,993	86,274,264	5,737,520	2,320,731	(5,060,240)	0	100,329	3,098,340
AEP River Operations	\$45,704,556	\$93,339,890	\$6,069,795	\$2,476,215	(\$5,474,660)	\$0	\$107,328	\$3,178,678
Total	\$4,400,113,231	\$5,552,352,050	\$115,442,025	\$216,674,677	(\$325,661,806)	\$0	\$10,332,809	\$16,787,705

**AMERICAN ELECTRIC POWER
 QUALIFIED RETIREMENT PLAN
 ESTIMATED 2025 NET PERIODIC PENSION COST**

Location	Projected Benefit Obligation	Market-Related Value of Assets	Service Cost	Interest Cost	Expected Return on Assets	Amortization of Prior Service Cost	Amortization of Gain/Loss	Net Periodic Pension Cost
140 Appalachian Power Co - Distribution	\$299,137,962	\$356,689,373	\$5,878,201	\$14,661,253	(\$20,945,422)	\$0	\$631,541	\$225,573
215 Appalachian Power Co - Generation	250,287,287	304,182,283	5,159,652	12,275,192	(17,862,114)	0	528,407	101,137
150 Appalachian Power Co - Transmission	27,428,559	28,544,829	18,907	1,323,162	(1,676,202)	0	57,907	(276,226)
Appalachian Power Co. - FERC	\$576,853,808	\$689,416,485	\$11,056,760	\$28,259,607	(\$40,483,738)	\$0	\$1,217,855	\$50,484
225 Cedar Coal Co	2,820,838	4,697,472	0	135,926	(275,844)	0	5,955	(133,963)
Appalachian Power Co. - SEC	\$579,674,646	\$694,113,957	\$11,056,760	\$28,395,533	(\$40,759,582)	\$0	\$1,223,810	(\$83,479)
211 AEP Texas Central Company - Distribution	\$251,699,707	\$324,215,917	\$6,454,819	\$12,380,026	(\$19,038,524)	\$0	\$531,389	\$327,710
147 AEP Texas Central Company - Generation	3,027,125	11,137,031	0	146,394	(653,986)	0	6,391	(501,201)
169 AEP Texas Central Company - Transmission	24,721,979	32,059,369	832,498	1,227,131	(1,882,582)	0	52,193	229,240
AEP Texas Central Co.	\$279,448,811	\$367,412,317	\$7,287,317	\$13,753,551	(\$21,575,092)	\$0	\$589,973	\$55,749
170 Indiana Michigan Power Co - Distribution	\$149,741,087	\$186,493,862	\$3,336,384	\$7,362,574	(\$10,951,245)	\$0	\$316,134	\$63,847
132 Indiana Michigan Power Co - Generation	102,311,210	124,564,265	2,359,196	5,031,036	(7,314,631)	0	216,000	291,601
190 Indiana Michigan Power Co - Nuclear	207,339,382	288,044,160	8,719,868	10,339,589	(16,914,455)	0	437,735	2,582,737
120 Indiana Michigan Power Co - Transmission	34,873,531	40,771,714	764,303	1,713,014	(2,394,186)	0	73,625	156,756
280 Ind Mich River Transp Lakin	30,249,552	42,168,680	1,136,980	1,505,945	(2,476,218)	0	63,863	230,550
Indiana Michigan Power Co. - FERC	\$524,514,762	\$682,042,681	\$16,316,711	\$25,952,158	(\$40,050,735)	\$0	\$1,107,357	\$3,325,491
202 Price River Coal	0	0	0	0	0	0	0	0
Indiana Michigan Power Co. - SEC	\$524,514,762	\$682,042,681	\$16,316,711	\$25,952,158	(\$40,050,735)	\$0	\$1,107,357	\$3,325,491
110 Kentucky Power Co - Distribution	\$66,801,047	\$78,811,674	\$1,406,874	\$3,277,237	(\$4,627,959)	\$0	\$141,031	\$197,183
117 Kentucky Power Co - Generation	31,635,932	35,539,694	454,215	1,541,785	(2,086,953)	0	66,790	(24,163)
180 Kentucky Power Co - Transmission	3,001,300	3,137,159	4,371	145,304	(184,219)	0	6,336	(28,208)
600 Kentucky Power Co. - Kammer Actives	5,431,941	7,628,852	212,299	269,222	(447,979)	0	11,468	45,010
701 Kentucky Power Co. - Mitchell Actives	27,627,694	43,203,940	1,334,822	1,382,668	(2,536,984)	0	58,328	238,834
702 Kentucky Power Co. - Mitchell Inactives	23,627,210	31,485,449	0	1,140,108	(1,848,880)	0	49,882	(658,890)
Kentucky Power Co.	\$158,125,124	\$199,806,318	\$3,412,581	\$7,756,324	(\$11,732,974)	\$0	\$333,835	(\$230,234)
250 Ohio Power Co - Distribution	\$399,121,775	\$496,567,550	\$8,445,936	\$19,618,346	(\$29,159,312)	\$0	\$842,627	(\$252,403)
160 Ohio Power Co - Transmission	42,486,921	44,353,196	51,791	2,051,410	(2,604,497)	0	89,698	(411,598)
Ohio Power Co.	\$441,608,696	\$540,920,746	\$8,497,727	\$21,669,756	(\$31,763,809)	\$0	\$932,325	(\$664,001)
167 Public Service Co of Oklahoma - Distribution	\$143,779,138	\$193,206,377	\$4,555,488	\$7,109,934	(\$11,345,415)	\$0	\$303,547	\$623,554
198 Public Service Co of Oklahoma - Generation	72,226,696	101,721,715	2,863,887	3,580,780	(5,973,276)	0	152,485	623,876
114 Public Service Co of Oklahoma - Transmission	17,383,699	24,657,902	680,962	865,008	(1,447,955)	0	36,701	134,716
Public Service Co. of Oklahoma	\$233,389,533	\$319,585,994	\$8,100,337	\$11,555,722	(\$18,766,646)	\$0	\$492,733	\$1,382,146
159 Southwestern Electric Power Co - Distribution	\$89,284,366	\$126,188,487	\$3,604,376	\$4,440,340	(\$7,410,008)	\$0	\$188,497	\$823,205
168 Southwestern Electric Power Co - Generation	100,333,602	143,357,899	4,660,377	5,009,793	(8,418,226)	0	211,825	1,463,769
161 Southwestern Electric Power Co - Texas - Distribution	46,779,855	62,487,934	1,690,730	2,325,545	(3,669,400)	0	98,762	445,637
111 Southwestern Electric Power Co - Texas - Transmission	121,970	126,673	0	5,946	(7,438)	0	258	(1,234)
194 Southwestern Electric Power Co - Transmission	13,048,574	20,161,994	610,665	657,016	(1,183,947)	0	27,548	111,282
Southwestern Electric Power Co.	\$249,568,367	\$352,322,987	\$10,566,148	\$12,438,640	(\$20,689,019)	\$0	\$526,890	\$2,842,659
119 AEP Texas North Company - Distribution	60,857,437	79,591,971	1,925,775	2,987,675	(4,673,779)	0	128,482	368,153
166 AEP Texas North Company - Generation	17,811,727	25,163,889	0	858,199	(1,477,667)	0	37,604	(581,864)
192 AEP Texas North Company - Transmission	9,111,972	13,269,261	424,346	453,085	(779,194)	0	19,237	117,474
AEP Texas North Co.	\$87,781,136	\$118,025,121	\$2,350,121	\$4,298,959	(\$6,930,640)	\$0	\$185,323	(\$96,237)
230 Kingsport Power Co - Distribution	\$12,258,542	\$15,133,979	\$292,646	\$603,060	(\$888,694)	\$0	\$25,880	\$32,892
260 Kingsport Power Co - Transmission	2,100,881	2,177,591	405	101,428	(127,872)	0	4,435	(21,604)
Kingsport Power Co.	\$14,359,423	\$17,311,570	\$293,051	\$704,488	(\$1,016,566)	\$0	\$30,315	\$11,288
210 Wheeling Power Co - Distribution	\$14,651,635	\$17,783,271	\$293,488	\$717,568	(\$1,044,265)	\$0	\$30,933	(\$2,276)
200 Wheeling Power Co - Transmission	569,322	881,752	0	27,587	(51,778)	0	1,202	(22,989)
Wheeling Power Co.	\$15,220,957	\$18,665,023	\$293,488	\$745,155	(\$1,096,043)	\$0	\$32,135	(\$25,265)
103 American Electric Power Service Corporation	\$1,374,104,508	\$1,689,956,302	\$36,997,063	\$67,770,779	(\$99,237,182)	\$0	\$2,901,009	\$8,431,669
American Electric Power Service Corp	\$1,374,104,508	\$1,689,956,302	\$36,997,063	\$67,770,779	(\$99,237,182)	\$0	\$2,901,009	\$8,431,669
143 AEP Pro Serv. Inc.	\$1,000,427	\$1,037,168	\$0	\$48,233	(\$60,904)	\$0	\$2,112	(\$10,559)
189 Central Coal Company	0	0	0	0	0	0	0	0
171 CSW Energy, Inc.	2,415,445	2,503,536	0	113,352	(147,012)	0	5,099	(28,561)
Miscellaneous	\$3,415,872	\$3,540,704	\$0	\$161,585	(\$207,916)	\$0	\$7,211	(\$39,120)
270 Cook Coal Terminal	\$3,309,782	\$4,885,877	\$134,128	\$164,673	(\$286,907)	\$0	\$6,988	\$18,882
AEP Generating Company	\$3,309,782	\$4,885,877	\$134,128	\$164,673	(\$286,907)	\$0	\$6,988	\$18,882
104 Cardinal Operating Company	\$71,579,127	\$100,332,998	\$1,706,485	\$3,521,608	(\$5,891,729)	\$0	\$151,118	(\$512,518)
181 Ohio Power Co - Generation	270,808,888	397,138,408	3,923,956	13,215,973	(23,320,660)	0	571,732	(5,608,999)
AEP Generation Resources - FERC	\$342,388,015	\$497,471,406	\$5,630,441	\$16,737,581	(\$29,212,389)	\$0	\$722,850	(\$6,121,517)
290 Conesville Coal Preparation Company	2,930,638	4,448,206	0	142,414	(261,206)	0	6,187	(112,605)
AEP Generation Resources - SEC	\$345,318,653	\$501,919,612	\$5,630,441	\$16,879,995	(\$29,473,595)	\$0	\$729,037	(\$6,234,122)
175 AEP Energy Partners	8,633,599	13,717,489	788,011	457,138	(805,515)	0	18,227	457,861
AEP Energy Supply	\$353,952,252	\$515,637,101	\$6,418,452	\$17,337,133	(\$30,279,110)	\$0	\$747,264	(\$5,776,261)
293 Elmwood	\$2,955,965	\$7,272,804	\$339,419	\$156,937	(\$427,072)	\$0	\$6,241	\$75,525
292 AEP River Operations LLC	42,371,413	89,883,236	5,860,884	2,305,440	(5,278,100)	0	89,455	2,977,679
AEP River Operations	\$45,327,378	\$97,156,040	\$6,200,303	\$2,462,377	(\$5,705,172)	\$0	\$95,696	\$3,053,204
Total	\$4,363,801,247	\$5,621,382,738	\$117,924,187	\$215,166,833	(\$330,097,393)	\$0	\$9,212,864	\$12,206,491

Appendix E: Descriptions of Funded Status Measures

Calculations for Funding Ratios Chart in Section 1: Summary of Results

Prior Year Ratios

Purpose of Ratio	Asset Measure	Obligation Measure
1 Test ability to apply funding balances to current year MRC	AVA – PFB	FTO
2 Quarterly contribution exemption test for current year	AVA – FSCB – PFB	FT
3 At-risk Prong 1 Test for current year	AVA – FSCB – PFB	FTO
4 At-risk Prong 2 Test for current year	AVA – FSCB – PFB	FTAR, but without loads

Current Year Ratios

Purpose of Ratio	Asset Measure	Obligation Measure
1 Test ability to apply funding balances to next year's MRC	Same as for analogous Prior Year Ratio	
2 Quarterly contribution exemption test for next year		
3 At-risk Prong 1 Test for next year		
4 At-risk Prong 2 Test for next year		
5 PBGC 4010 filing gateway test (PBGC FTAP) (to determine whether a filing is required next year for the current plan year)	AVA – FSCB – PFB	FTO pre-HATFA
6 Exemption from establishing SAB in current year:		
- If PFB applied to current year MRC	AVA – PFB	FT
- If PFB not applied to current year MRC	AVA	FT
7 Eliminate SABs in current year	AVA – FSCB – PFB	FT

Benefit Restriction Ratios

Purpose of Ratio for Plan Year	Assets	Obligations	Year Ratio is Determined
Adjusted Funding Target Attainment Percentage (AFTAP) – Application of Benefit Restrictions under IRC 436	[AVA if AVA/FTO >= 100%; AVA – FSCB – PFB otherwise] + annuity purchases for NHCEs in previous 2 years	FTO + annuity purchases for NHCEs in previous 2 years	Current

Definitions of terms

Term	Short for	Definition
FTAP	Funding target attainment percentage	$(AVA - FSCB - PFB) / FTO$
PBGC FTAP	FTAP for exemption from ERISA 4010	$(AVA - FSCB - PFB) / (FTO \text{ pre-HATFA})$
FSCB	Funding standard carryover balance	Accumulated contributions in excess of those required in pre-PPA plan years, less amounts applied to MRC or forfeited
PFB	Prefunding balance	Accumulated contributions in excess of those required since PPA applied to the plan, to the extent the plan sponsor elected to create PFB, less amounts subsequently applied to MRC or forfeited
Funding balance	FSCB + PFB	
FTO	Ongoing funding target	Funding target as described in IRC 430, ignoring at-risk assumptions; equals FT for a plan that is not at-risk.
FTO pre-HATFA	FTO calculated ignoring HATFA corridors	Same as FTO if the full yield curve is used, or segment rates fall within the HATFA corridors
FTAR	At-risk funding target	Funding target reflecting at-risk assumptions and any applicable loads, as described in IRC 430(i), with no phase-in
FT	Funding target	Funding target used to calculate MRC. Equals: <ul style="list-style-type: none"> • FTO if the plan is not at-risk. • FTAR if the plan has been at risk for at least 5 consecutive plan years. • Otherwise, $FTO + 20\% * (\# \text{ of consecutive years at-risk}) * (\text{the excess, if any, of FTAR over FTO})$.
FS	Funding shortfall (surplus)	$FT - (AVA - \text{funding balances})$
PBGC 4010 FS	Funding shortfall for determining whether a controlled group is exempt from an ERISA 4010 filing	$FT - AVA$ See PBGC reporting requirements section of the report for more information.
SAB	Shortfall amortization base	An SAB is established each year equal to the FS less the present value of the SAs related to SABs established in earlier years. A plan may be exempt from establishing an SAB for a plan year in accordance with the test in the Funding Ratios chart in section 1.

Term	Short for	Definition
TNC	Target normal cost	Present value of benefits expected to accrue, and expenses expected to be paid from plan assets, for the year. Reflects at-risk assumptions if the plan is at-risk (phased-in if plan has been at-risk for fewer than 5 consecutive years as described above)
SAI	Shortfall amortization installment	Amortization for an SAB established in a particular year. SAIs are eliminated if FS is less than or equal to \$0.
MRC	Minimum required contribution	TNC plus SAIs as of the valuation date (assumes no funding waivers and plan is not fully funded). See section 2.4 for more details on this calculation.
AVA	Actuarial value of assets	"Plan assets" under PPA, including discounted receivables and reflecting any smoothing. See section 2.3 for more details.