



Section 205 FERC Filing

- AEP filed Section 205 November 22, 2016, modifying Attachment H-14A and H-14B of the PJM OATT
- FERC issued an Order March 10, 2017, accepting (subject to refund) those modifications
- AEP calculated its Projected Transmission Revenue Requirement (PTRR) for rates effective January 1, 2017



Section 205 FERC Filing (continued)

- Previously, AEP's formula rates were billed on projected plant and actual FERC Form 1 expenses, paid July 1-Dec 31, 2016.
- True-up was based on average historic plant investment and actual FERC Form 1 balances.
- Cost recovery for any given rate year would not be completed for as long as 30 months.



Section 205 FERC Filing (continued)

- Transition to fully projected ("PTRR") formula rate
- Pro-rate property-related accumulated deferred income taxes ("ADIT") per IRS rules
- Provide deferred tax liability and flow-through
- Minor modifications to protocols
- Provide billing credit for existing customers that own network transmission facilities, PJM OATT Section 30.9



Billing Transition

- The 2017 PTRR updated rates
 - included in March bill (billed in April)
- For January and February, PJM will make prior period adjustments to the bills.
 - NITS spread the Jan/Feb under-collection over 8 months, beginning with March billing
 - Schedule 12 reflect the Jan/Feb over-collection in March and April bills
 - Schedule 1A bill the entire under-collection in March



Federal Energy Regulatory Commission (FERC)

- FERC has accepted other forwardlooking formula rates
- Not a departure from ratemaking practice
- Customers pay only transmission costs (no more or less) – mitigates lag



Benefits to Customers

- Matches rates to service
- Reduces true-up
- Reduces interest
- PTRR consistent with PJM billing process, new NSPL beginning January 1
- True-up ensures customers pay actual revenue requirement based on FERC
 Form 1 reports, no more and no less



Future True-ups

- 2016 true-up of the previous formula rate will be computed, filed, and posted on the PJM/AEP website by May 25, 2017 (as done in the past)
 - Any over/under recovery with interest will be included in the PTRR effective January 1, 2018, and posted on the PJM/AEP website by October 31, 2017
- 2017 PTRR will be trued-up by May 25, 2018
 - Any over/under recovery with interest will be included in rates effective January 1, 2019



AEP East Zone Network Service Peak Load

- NSPL (1 CP)
 - 2015 NSPL February 20, 2015 (winter peak)
 - Hour 08 24,725.1 MW
 - 2016 NSPL August 11, 2016 (summer peak)
 - Hour 15 22,475.7 MW



Operating Company Rates

Previous Billed Rate

- Rates effective July 1, 2016
 - billed July December, 2016
 - \$84.88/MW-Day (2015 NSPL 24,725.1 MW)
- Projected Rate update (PTRR)
 - Rates effective January 1, 2017 Average B/E Projected
 Ratebase Balances (2016-2017) and Projected 2017 O&M
 Expense
 - billed January December, 2017
 - \$99.63/MW-Day (2016 NSPL 22,475.7 MW)
 - 7% of increase due to higher PTRR, remaining due to lower NSPL

(Rates are Off-peak PTP daily rate.)



Regulatory Changes

Depreciation rates revised for Kingsport Power Company



AEP.com Website Posting for Rates Effective January through December, 2017

http://www.aep.com/about/codeofconduct/ **OASIS/TariffFilings/**

OATT Formula Rate

- **Notice of Annual Filing**
- **Annual Update Customer Meeting Notice**
- Formula Rate Update AEP Operating **Companies Summary**
- **ATRR Summary of AEP Operating Companies**
- **Appalachian Power Company**
- **Indiana Michigan Power Company**
- **Kentucky Power Company**
- **Kingsport Power Company**
- **Ohio Power Company**
- **Wheeling Power Company**
- Projected 2016-2017 ADIT Detail



Operating Company Rate Summary

Charge	July 1, 2016* 2015 FERC Form 1 (projected plant 2016 historical 2015)	Projected ** January 1, 2017 (projected B/E 2016/2017 plant)	Total Change and % Change
Point-to-Point Rate \$/MW-Month	\$2,581.64	\$3,030.54	\$448.90 17.4%
Schedule 12 ATRR	\$54,479,931	\$43,791,672	(10,688,259) (19.6)%
Schedule 1A	\$.0923/MWh	\$.1000/MWh	\$0.0077 8.3%
AEP East Zone Annual MWh	130,280,083 MWh	134,310,000 MWh	4,029,917 3.1%
AEP East Zone Network Service Peak Load	24,725.1 MW	22,475.7 MW	(2,249.4) (9.1)%

^{*}Billed through end of 2016. **Billed starting January 1, 2017.



Reliability Enhancement "Baseline vs Backbone Project"

- PJM's RTEP, Regional Transmission Expansion Plan, identifies system additions and improvements needed to keep electricity flowing to millions of people.
- PJM "Backbone" projects are a subset of "Baseline" projects, identified by PJM to resolve a wide range of reliability criteria, violations, and market congestion issues.
- PJM specifically identifies system reliability issues and approves baseline projects to address them.



Reliability Enhancement "Backbone Project"





b1660.1 - Rebuild Amos-Kanawha River 138kV corridor

Driver: Generator Deactivation

b2020 - Cloverdale – install 6 765kV breakers including incremental work for 2 additional breakers; reconfigure and relocate miscellaneous facilities; establish 500kV station and 500kV tie with 765kV station.

Driver: Baseline Load Growth Deliverability & Reliability

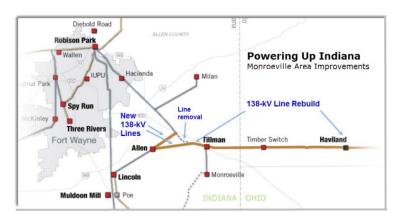


Reliability Enhancement "Baseline Project"



b1032.2 - Construct two 138kV outlets to Delano 138kV station and Circleville station; install new 138 kV breaker string at Delano station to terminate new line.

Driver: Baseline Load Growth Deliverability & Reliability

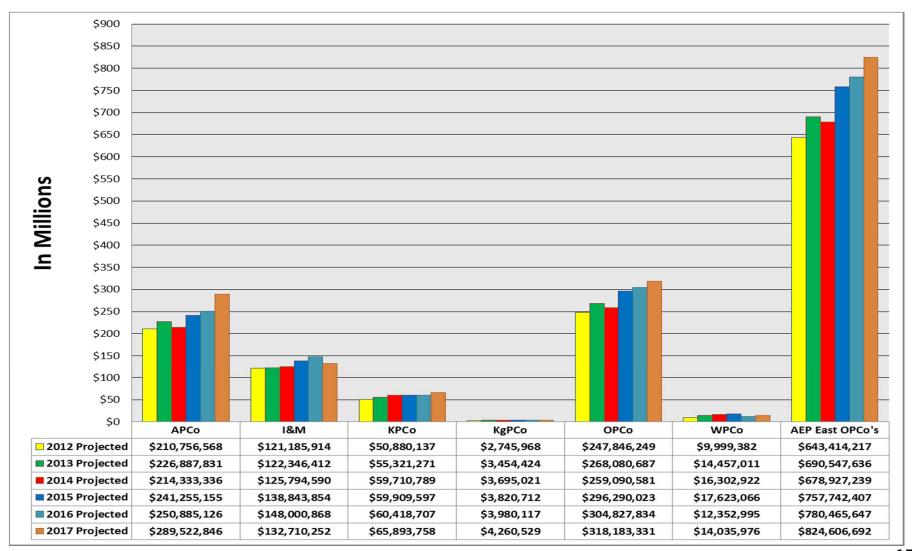


b1818 - Expand Allen station by installing a second 345/138 kV transformer and adding four 138 kV exits by cutting in the Lincoln - Sterling and Milan - Timber Switch 138 kV double circuit tower line

Driver: Baseline Load Growth Deliverability & Reliability



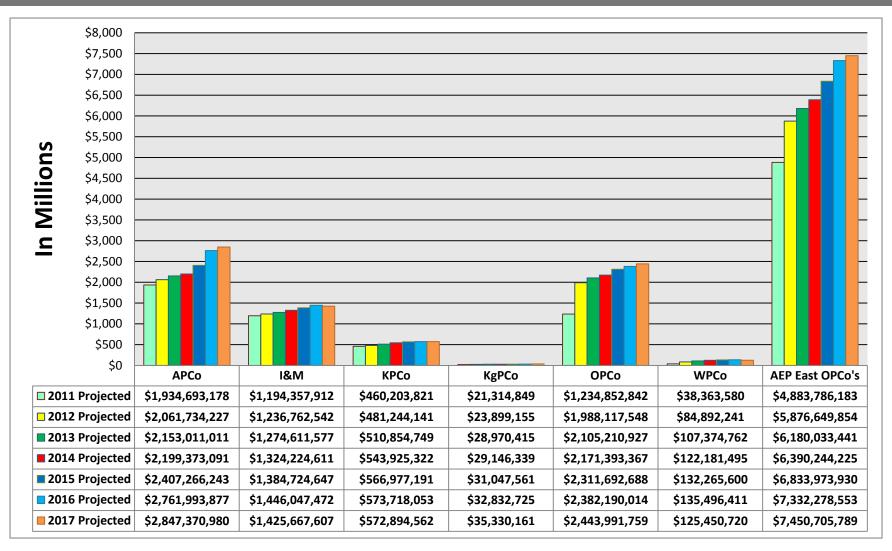
Revenue Requirement (Summary Line 8) used to calculate the PTRR Revenue Requirement





Gross Plant Investment

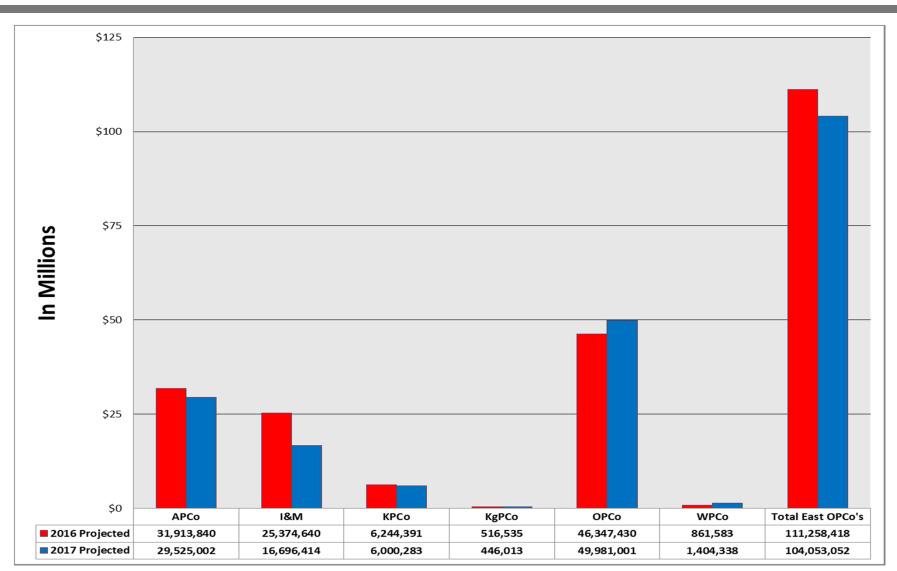
Prior Year Projected vs. PTRR B/E Balance





Transmission O&M Expense

2016 Projected (Actual 2015) vs 2017 Projected





Schedule 1A

	Line No.			AEP Annual Revenue Requirement
Δ	Schad	ule 1A ARR		
Α.	1	Total Load Dispatch & Scheduling (Account 561) (TCOS Line 15)		\$32,427,739
	•	Less: Load Disptach - Scheduling, System Control and Dispatch Services		ψο Σ , τ Σ Γ, Γου
	2	(321.88.b)		\$14,705,536
	_	Less: Load Disptach - Reliability, Planning & Standards Development		ψ11,700,000
	3	Services (321.92.6)		\$3,713,590
	4	Total 561 Internally Developed Costs	(Ln 1 - Ln 2 - Ln 3)	\$14,008,613
	5	Less: PTP Service Credit		\$393,497
	6	EXISTING ZONAL ARR	(Ln 4 - Ln 5)	\$13,615,116
	7	PRIOR YEAR TRUE-UP with Interest		-\$178,537
	8	Net Schedule 1A Revenue Requirement for Zone		\$13,436,579
В.	<u>Sched</u>	ule 1A Rate Calculations		
	9	2017 AEP East Zone Annual MWh		134,310,000 MWh
	10	AEP Zone Rate for Schedule 1A Service.	(Line 8 / Line 9)	\$0.1000







Section 205 FERC Filing

- AEP filed Section 205 November 22, 2016, modifying Attachment H-20A and H-20B of the PJM OATT
- FERC issued an Order March 10, 2017, accepting (subject to refund) those modifications
- AEP calculated its Projected Transmission Revenue Requirement (PTRR) for rates effective January 1, 2017



TransCo Rates

- **Previous "Billed" Rate**
 - Rates effective July 1, 2016
 - billed July December, 2016
 - \$39.91/MW-Day (2015 NSPL 24,725.1 MW)
- **Projected Rate update (PTRR)**
 - Rates effective January 1, 2017 with Average B/E "Projected" Ratebase Balances (2016-2017) and O&M "Projected" 2017 **Expense**
 - billed January December, 2017
 - \$56.51/MW-Day (2016 NSPL 22,475.7 MW)
 - 29% increase due to higher PTRR, remaining due to lower **NSPL**

(Rates are Off-peak PTP daily rate.)



AEP.com Website Posting

for TransCo Rates Effective January - December, 2017

- http://www.aep.com/about/codeofconduct/ OASIS/TariffFilings/
- Notice of Annual Filing
- Formula Rate Update AEP
 Transmission Companies Summary
- ATRR Summary of AEP TransCo East Formula Rates
- Appalachian Transmission Company
- Indiana Michigan Transmission Company
- Kentucky Transmission Company
- Ohio Transmission Company
- West Virginia Transmission Company
- Projected 2016-2017 ADIT TransCo Detail



TransCo Rate Summary

Charge	July 1, 2016 * 2015 FERC Form 1 (projected plant 2016)	Projected ** January 1, 2017 (projected B/E plant)	Total Change and % Change
Point-to Point Rate \$/MW-Month	\$1,213.79	\$1,718.74	\$504.95 41.6%
Schedule 12	\$124,875,434	\$152,074,418	\$27,198,984 21.8%
AEP East Zone Network Service Peak Load in MW	24,725.1 MW	22,475.7 MW	(2,249.4) (9.1)%

^{*}Billed through end of 2016.

^{**}Billed starting January 1, 2017.



Primary Drivers of Rate Change

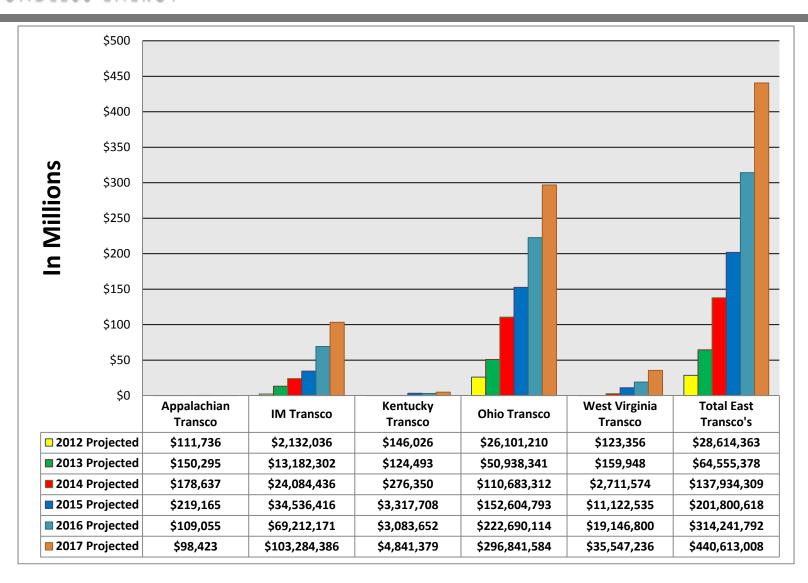
- Increased capital spend in AEP I&M
 TransCo, AEP Kentucky TransCo, AEP Ohio

 TransCo and AEP West Virginia TransCo
- Increase in Expense
 - Increase in O&M Expense
 - Increase in Depreciation Expense
 - Increase in Property Taxes
- Network Service Peak Load ("NSPL")
 - 9.1% decrease in 2016 NSPL
 - 24,725.1 MW (2015 NSPL) to 22,475.7 MW (2016 NSPL)



Revenue Requirement (Summary Line 8) used to calculate the PTRR Revenue Requirement

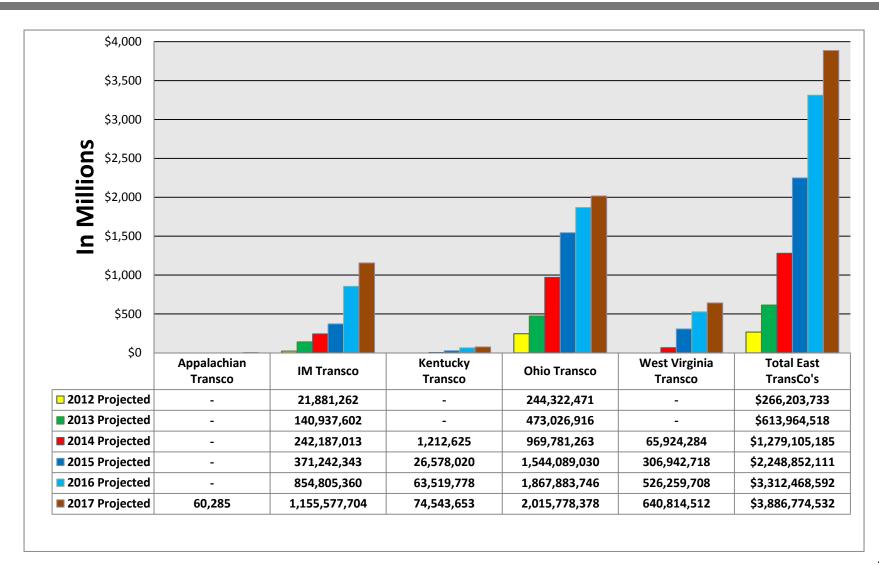






Gross Plant Investment

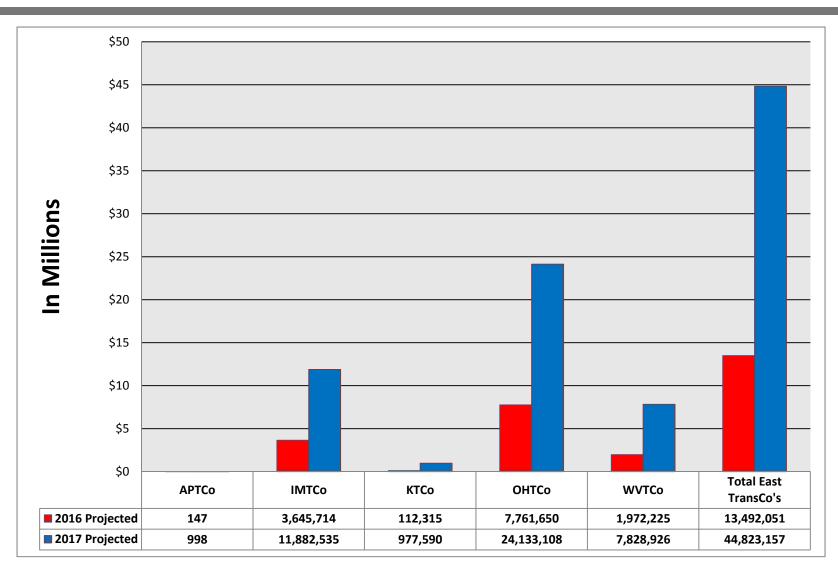
Prior Year Projected vs. PTRR B/E Balance





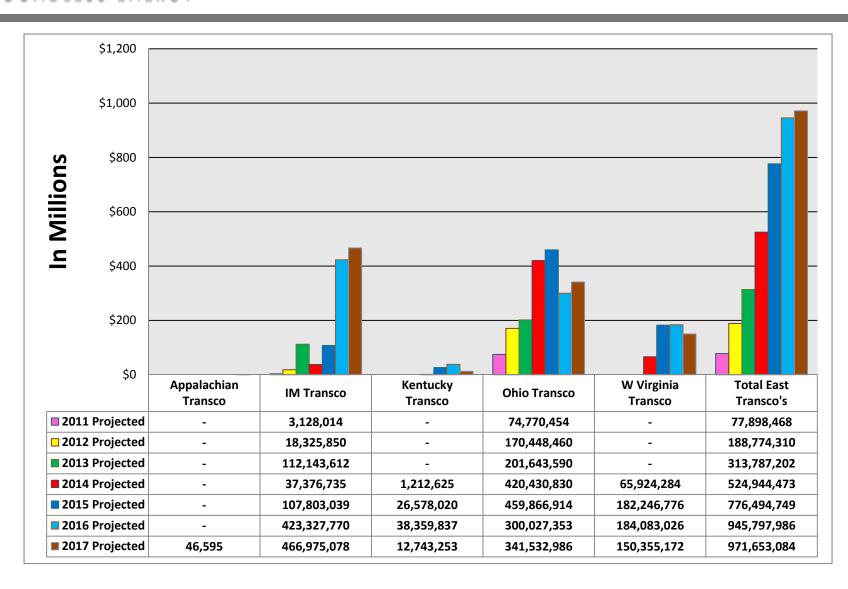
Transmission O&M Expense

2016 Projected (Actual 2015) vs 2017 Projected





Projected Plant Additions





Reliability Enhancement "Backbone Project"

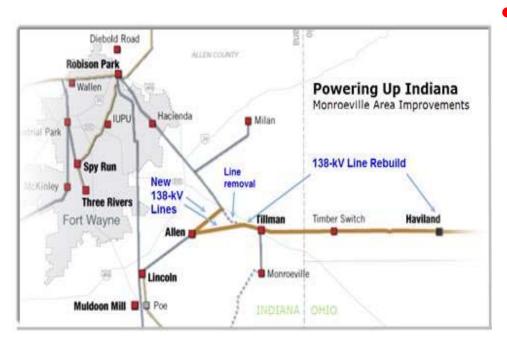


b1465.1 - Add a third 2250 MVA 765/345 kV transformer at Sullivan station and 345 kV switching changes at Sullivan/Breed

Driver: Baseline Load Growth Deliverability & Reliability



Reliability Enhancement "Baseline Project"



B1818 - Expand the Allen station, install a second 345/138 kV transformer, add four 138 kV exits, cutting in the Lincoln - Sterling and Milan - Timber Switch 138 kV double circuit tower line

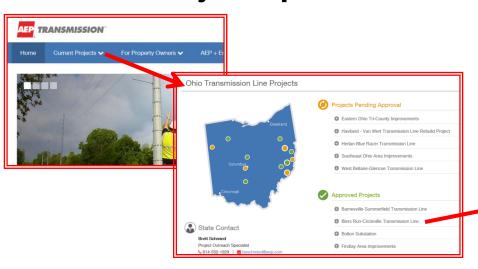
- b2423 Install a 300 MVAR shunt reactor at AEP's Wyoming 765 kV station
- b2230 Replace existing 150 MVAR reactor at Amos 765 kV with 300 MVAR reactor

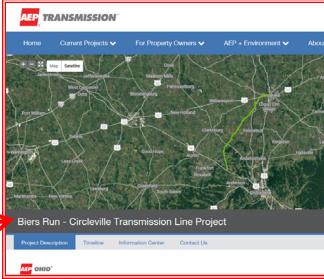


AEP Projects Website

- A valuable resource for Transmission project information around the system:
 - http://aeptransmission.com/index.php
 - Current Projects by state (not all inclusive)

Project specific websites







Questions

Contact:

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