

BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO

In the matter of the Annual Report of the)	
Electric Service and Safety Standards,)	Case No: 18 - 996 -EL-ESS
Pursuant to Rule 4901:1-10-26(B) of the Ohio)	
Administrative Code)	

ANNUAL REPORT OF
AEP Ohio Transmission Company, Inc.
submitted for the year 2017 .

I certify that the following report accurately and completely reflects the annual report requirements pursuant to Rule 4901:1-10-26 of the Ohio Administrative Code.


Signature

Robert W. Bradish
Printed Name

Vice President - Transmission Planning
Title and Engineering

March 29, 2018
Date

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1. 4901:1-10-26(B)(1), (B)(1)(b), (B)(1)(c) Future investment plan for facilities and equipment, covering period of no less than three years

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
A15043143, A15043144	Transmission	Replace & upgrade 2 -345/138kV transformers at Hyatt station and upgrade 345 & 138kV protection.	Northwest Columbus, Ohio	Urban, Suburban	\$6,000,000	5/1/2017	12/1/2019
A15043149, A15043150	Transmission	Replace & upgrade 1 -345/138 transformer at Roberts station	West Columbus, Ohio	Urban	\$8,000,000	5/1/2017	12/1/2019
MP0006426, TP-2017-003	Transmission	Replace 345/138kV transformer & 138/34kV transformer & upgrade 345, 138, and 34kV protection at Kirk station	East Columbus, Ohio	Urban, Suburban	\$18,000,000	5/1/2017	12/1/2019
TP-2015-069	Transmission	Install 138/40kV transformer at Harrison and build new 69kV line to Parsons. Rebuild Marion-Parsons 69kV line.	Southeast Columbus, Ohio	Urban	\$22,000,000	10/1/2017	12/1/2018
TP-2016-032	Transmission	Cut second 138kV circuit on common tower into Karl station on ring bus.	Northeast Columbus, Ohio	Urban	\$15,000,000	3/1/2016	12/1/2018
TP-2016-095	Transmission	Rebuild Corridor-Jug 345kV line as double circuit 345/138kV.	New Albany / Northeast Columbus, Ohio	Suburban	\$27,000,000	11/1/2016	12/1/2019

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1. 4901:1-10-26(B)(1), (B)(1)(b), (B)(1)(c) Future investment plan for facilities and equipment, covering period of no less than three years

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP-2016-134	Transmission	Construct new line to close 69kV loop at Madison station and rebuild existing 69kV radial lines	Southern Columbus, Ohio	Suburban, Rural	\$42,000,000	11/1/2016	12/1/2019
TP-2016-137	Transmission	Build new 138kV line from Amlin to Dublin. Retire Dublin-Sawmill 138kV.	Northwest Columbus, Ohio	Urban, Suburban	\$12,000,000	5/1/2017	6/1/2020
TP-2015-065	Transmission	Rebuild approximately 1.56 miles of the East Coshocton – North Coshocton 34 kV line. Upgrade the East Coshocton 34.5 kV switch	Eastern Ohio	Rural, Suburban	\$5,000,000	12/01/2017	06/01/2019
TP-2016-117	Transmission	Replace the Newcomerstown 138/69 kV transformer and install a Newcomerstown 138/12 kV transformer.	Eastern Ohio	Rural	\$5,600,000	11/30/2017	12/15/2018 (Depends if outages are available, otherwise it will be 6/2019.)
TP-2016-122	Transmission	Somerset install four 69 kV circuit breaker ring bus. 69 kV lines need relocated to new switching station.	Eastern Ohio	Rural, Suburban	\$5,700,000	12/01/2017	12/01/2019

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1. 4901:1-10-26(B)(1), (B)(1)(b), (B)(1)(c) Future investment plan for facilities and equipment, covering period of no less than three years

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP-2016-133	Transmission	Morgan Run install a three 69 kV circuit breaker ring bus.	Eastern Ohio	Rural	\$4,600,000	12/21/2017	12/01/2018
TP-2017-007	Transmission	Ohio Central and West Bellaire install two 345 kV 150 MVAR reactors at each station.	Eastern Ohio	Rural	\$24,500,000	06/27/2017	11/1/2018
TP-2017-054	Transmission	Rebuild 0.53 miles of the Kaiser Jct-Air Force Jct Sw section of the Kaiser-Heath 69 kV circuit/line. Replace Heath circuit breakers and transformer.	Eastern Ohio	Urban, Suburban	\$2,900,000	01/15/2018	06/01/2021
TP2016130	Transmission	Columbus Grove - Ottawa 69kV Redbuild	Northwest Ohio	Suburban, Rural	\$12,000,000	9/7/2017	12/1/2019
TP2017028	Transmission	Softail Sw	Northwest Ohio	Suburban, Rural	\$400,000	9/27/2017	5/31/2018
TP2017039	Transmission	Install new 69kV ring bus station near St Clairsville, to improve area operations and reliability	Belmont County	Rural, hilly	\$8,000,000	5/1/2017	6/1/2022
TP2016126	Transmission	Upgrade 69kV stations to improve customer reliability (West New Philadelphia, Schoenbrunn, Dennison)	Tuscarawas County	Rural, hilly	\$3,400,000	1/15/2017	6/1/2020

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1. 4901:1-10-26(B)(1), (B)(1)(b), (B)(1)(c) Future investment plan for facilities and equipment, covering period of no less than three years

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP2016108	Transmission	Rebuild West Bellaire-Moundsville 69kV circuit, to improve customer reliability	Belmont County	Rural, hilly	\$24,000,000	1/15/2017	12/1/2023
TP-2015-057	Transmission	Lamping - Devola new 138kV circuit; Three new AEP substations will be built to support this project: 345-138kV Lamping, 138-12kV Rouse (WEC) and 138-12kV Bell Ridge (WEC). Lamping will be a 345-138kV source for the new 138kV line extending from Lamping to Devola. Devola is a new station that will be constructed as part of the Marietta-North Project (TP-2012-061).	The communities north and east of Marietta	Residential, commercial with some industrial sites	\$92,000,000	6/1/2015	9/30/2019

Notes: Note (1): TP-2015-057, Marietta-East.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1a. 4901:1-10-26(B)(1), (B)(1)(a) Relevant characteristics of the service territory

Transmission or Distribution	Overhead Miles	Underground Miles	Notable Characteristics
Transmission	575	8	

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

1b. 4901:1-10-26(B)(1) Future investment plan for facilities and equipment

Transmission or Distribution	2017 Planned Costs	2017 Actual Costs	2018 Planned Costs	2019 Projected Costs	2020 Projected Costs	2021 Projected Costs
Transmission	\$314,281,000	\$305,493,000	\$271,616,000	\$317,383,000	\$236,542,000	\$378,330,000

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

2. 4901:1-10-26(B)(1)(d), (B)(1)(f) Complaints from other entities

Entity making complaint	Date complaint received	Nature of complaint	Action taken to address complaint	Resolved (yes/no)	Date complaint resolved	If not resolved, why?
None	N/A	N/A	N/A	N/A	N/A	N/A

Notes: None to Report

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

3a. 4901:1-10-26(B)(1)(e), (B)(1)(f) Electric Reliability Organization standards violations

Standard number	Standard name	Date of violation	Risk factor	Severity factor	Penalty dollars	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Notes: AEP Ohio Transmission did not have any reportable NERC violations in 2017.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

3b. 4901:1-10-26(B)(1)(e), (B)(1)(f) Regional Transmission Organization (RTO) violations

Name of RTO violation	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
	N/A	N/A	N/A	N/A

Notes: AEP Ohio Transmission did not have any RTO operating violations within Ohio commission's jurisdiction for the calendar year 2017.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

3c. 4901:1-10-26(B)(1)(e) Transmission Load Relief (TLR) events

Event Start	Event End	Highest TLR during event	Firm load interrupted during event	Amount of load (MW) interrupted	Description of event
	?	N/A	N/A	N/A	N/A

Notes: There were no PJM/AEP TLRs- called for AEP facilities- in Ohio during 2017.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

3d. 4901:1-10-26(B)(1)(e) Top ten congestion facilities by hours of congestion

Rank	Description of facility causing congestion
1	BASE
2	L500.Conastone-PeachBottom.5012
3	Duck Creek-Maple Ridge 345 kV
4	L230.EastTowanda-Canyon-NMshoppen + 230/115.NM.T4
5	WESTWOOD #2 345/138KV TRANSFORMER
6	Westwood-08NW_Tap-WLafayette 138
7	L500.NewFreedom-EastWindsor.5038
8	Clinton-MaroaJ-Oreana 345kV+Goosecrk-MaroaJ 345kV
9	Dumont-Wilton Center 765kV
10	L500.Hosensack-SteelCity.5032

Notes: Not Applicable to Ohio

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

3e. 4901:1-10-26(B)(1)(e) Annual System Improvement Plan and Regional Transmission Operator Expansion Plan

Relationship between annual system improvement plan and RTO transmission expansion plan

The transmission planning process for AEP Ohio Transmission Company is performed by the AEP Service Corporation and PJM, the Regional Transmission Organization that has functional control of the AEP Ohio Transmission Company facilities. The transmission planning process is an open, transparent, and collaborative process that is conducted in accordance with the requirements in FERC Order 890. Through this stakeholder planning process, projects are identified in the annual RTO Transmission Expansion Plan (RTEP).

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
A11012012 , A11012022, A11012015	Transmission	12/1/2021		Adjusted Planned Completion Date.	Lengthy timeframe for engineering, ROW acquisition, and siting. Also area outage-scheduling conflicts.
TA-2010-119	Transmission	11/30/2017	11/30/2017	Adjusted Planned End Date.	Reflecting Updated Plans.
TA-2011-012	Transmission	6/1/2020		None.	None.
TP-2005-004	Transmission	6/1/2018		Completed.	Completed.
TP-2005-059	Transmission	12/31/2018	12/31/2017	Completed.	Completed.
TP-2006-107	Transmission	12/1/2018		In service date changed to 2018.	Complex construction delayed completion.
TP-2007-020	Transmission	12/1/2018		Adjusted Planned Completion Date.	Changes in strategy.
TP-2007-102	Transmission	12/1/2018		Adjusted Planned Completion Date.	Changes in strategy.
TP-2007-152	Transmission	12/01/2017	12/1/2017	Completed.	Completed.
TP-2011-027	Transmission	12/31/2017	12/31/2017	Completed.	Completed.
TP-2011-055	Transmission	12/31/2018		Adjusted Planned End Date.	IPP in Suspension.
TP-2011-075	Transmission	12/31/2021		New planned completion date.	Scope re-developed.
TP-2012-061	Transmission	12/1/2021		No changes.	The project is being done as three separate projects by area. Due to budgetary reasons project was pushed out.
TP-2012-104	Transmission	12/1/2017	12/31/2017	Completed.	Completed.
TP-2012-119	Transmission	12/31/2018	6/1/2017	Completed.	Completed.

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2012-132	Transmission	6/30/2017	11/19/2017	Adjusted Planned End Date.	Unexpected requirements for station trenching and relaying.
TP-2012-176	Transmission	12/31/2019		Adjusted Planned End Date.	IPP in Suspension.
TP-2013-009	Transmission	12/31/2017		Adjusted Planned End Date.	Outage coordination difficulty.
TP-2013-084	Transmission	5/29/2021		Adjusted Planned Completion Date.	Outage coordination difficulty
TP-2013-120	Transmission	4/3/2017	4/3/2017	Completed.	Completed.
TP-2013-149	Transmission	12/1/2017	12/27/2017	Completed.	Completed.
TP-2013-189	Transmission	Canceled.	Canceled.	Project Canceled.	Canceled by PJM.
TP-2014-020	Transmission	12/1/2017	12/1/2017	Completed.	Completed.
TP-2014-079	Transmission	6/1/2019		Adjusted Planned Completion Date.	Lengthy timeframe for engineering, ROW acquisition, and siting. Also area outage-scheduling conflicts.
TP-2014-080	Transmission	3/10/2016	12/31/2017	Completed.	Completed.
TP-2014-095	Transmission	12/31/2018		Adjusted Planned Completion Date.	Outage coordination difficulty.
TP-2014-124	Transmission	6/1/2017	12/15/2017	Completed.	Completed.
TP-2014-125	Transmission	12/31/2017	12/14/2017	Completed.	Completed.
TP-2014-125	Transmission	12/31/2017	12/29/2017	Completed.	Completed.
TP-2014-149	Transmission	2/1/2017	12/31/2017	Completed.	Completed.
TP-2014-183	Transmission	6/1/2020		Work in progress.	Work in progress.
TP-2014-200	Transmission	6/1/2021		Work in progress.	Work in progress.

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2015-003	Transmission	6/1/2019		Work in progress.	Work in progress.
TP-2015-008	Transmission	9/1/2019		Work in progress.	Work in progress.
TP-2015-057	Transmission	12/1/2022		None.	Remove-Pedro-Lick from project.
TP-2015-096	Transmission	6/1/2017	12/14/2017	Completed.	Completed.
TP-2015-117	Transmission	6/1/2019		Work in progress.	Work in progress.
TP-2016-065	Transmission	12/1/2019		Adjusted Planned Completion Date.	Lengthy timeframe for engineering, ROW acquisition.
TP-2016-118	Transmission	1/31/2020		Cost. New cost is \$15,000,000.	Cost changed as Engineering assesment and estimates were done.

Notes: Note (1): TA-2010-119, this is the complete Glencoe- Speidel- Summerfield 138 line rebuild.
Note (2): TP-2014-079, this is for the Dennison-Desert Rd line rebuild.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

5. 4901:1-10-26(B)(3), (B)(3)(a) Characterization of condition of company's system

Transmission or Distribution	Qualitative characterization of condition of system	Explanation of criteria used in making assessment for each characterization
Transmission	The initial construction of overhead and underground facilities follows AEP's material and construction standards that incorporate National Electric Safety Code requirements. These standards were adopted to safely and reliably operate AEP's extensive transmission and distribution system in its 11-state service area. Once built and energized, the facilities are subject to mechanical and electrical stresses from various causes, including conductor and equipment loadings, severe weather, accidents and vandalism. These conditions will eventually lead to the need for maintenance, repair or replacement of the assets.	<p>AEP Transmission Operations continually monitors the operational performance of its transmission system. As necessary, corrective actions are taken by Operations to ensure the safe and reliable operation of the system during normal, as well as contingency conditions. During contingency conditions, Transmission Operations directs the necessary switching to isolate faulted equipment and restore service to customers impacted by the outage. Transmission Operations is also responsible for approving facility maintenance outages to ensure the outage does not adversely impact safe and reliable operation of the transmission system.</p> <p>AEP Transmission Planning periodically evaluates the anticipated performance of the transmission system over a planning horizon. As system performance deficiencies are identified and evaluated, appropriate area reinforcement plans are developed and implemented to ensure safe and reliable operation of the transmission system. The performance of existing facilities is also monitored by the Transmission Region Operation Groups. As needed, facilities are scheduled for maintenance or replaced as part of AEP's on-going rehabilitation. The proposed system reinforcements and system rehabilitation plan for the next several years are discussed in Section B(1).</p>

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

6. 4901:1-10-26(B)(3), (B)(3)(b) Safety and reliability complaints

Transmission or Distribution	Availability of Service	Damage	Momentary Interruption	Out of Service	Quality of Service	Repair Service	Public Safety	Total Complaints
---	--	---------------	-----------------------------------	---------------------------	-----------------------------------	---------------------------	--------------------------	-----------------------------

Transmission

Notes: None to Report

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

7a. 4901:1-10-26(B)(3)(c), (B)(3)(c)(i) Transmission capital expenditures

Total transmission capital expenditures in 2017	\$305,493,000
Total Transmission investment as of year end	\$2,219,545,541
Transmission capital expenditures as % of total transmission investment	13.76%

Notes:

7b. 4901:1-10-26(B)(3)(c), (B)(3)(c)(i) Transmission maintenance expenditures

Total transmission maintenance expenditures in 2017	\$3,236,147
Total Transmission investment as of year end	\$2,219,545,541
Transmission maintenance expenditures as % of total transmission investment	0.15%

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

7c. 4901:1-10-26(B)(3), (B)(3)(c)(ii), (B)(3)(c)(iii) Transmission capital expenditures - Reliability specific

Transmission capital budget category	2017 Budget	2017 Actual	% Variance	Explanation of variance if over 10%	2018 Budget
Construction Transmission - FERC Accounts 107	\$314,281,000	\$305,493,000	-2.80%		\$271,616,000

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

7d. 4901:1-10-26(B)(3), (B)(3)(c)(ii), (B)(3)(c)(iii) Transmission maintenance expenditures - Reliability specific

Transmission maintenance budget category	2017 Budget	2017 Actual	% Variance	Explanation of variance if over 10%	2018 Budget
Electric Transmission Operations - FERC Accounts 560 through 567	\$18,363,000	\$17,569,000	-4.32%		\$21,762,000
Electric Transmission Maintenance - FERC Accounts 568 through 573	\$7,097,000	\$3,236,147	-54.40%	Variance due to a reduction in overhead line maintenance and station maintenance.	\$7,758,000

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

8a. 4901:1-10-26(B)(3)(d), (B)(3)(d)(i) Distribution capital expenditures

Total distribution capital expenditures in 2017	
Total distribution investment as of year end	
Distribution capital expenditures as % of total distribution investment	

Notes:

8b. 4901:1-10-26(B)(3)(d), (B)(3)(d)(i) Distribution maintenance expenditures

Total distribution maintenance expenditures in 2017	
Total distribution investment as of year end	
Distribution maintenance expenditures as % of total distribution investment	

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

8c. 4901:1-10-26(B)(3), (B)(3)(d)(ii), (B)(3)(d)(iii) Distribution capital expenditures - Reliability specific

Distribution capital budget category	2017 Budget	2017 Actual	% Variance	Explanation of variance if over 10%	2018 Budget
---	------------------------	------------------------	-------------------	--	------------------------

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

8d. 4901:1-10-26(B)(3), (B)(3)(d)(ii), (B)(3)(d)(iii) Distribution maintenance expenditures - Reliability specific

Distribution maintenance budget category	2017 Budget	2017 Actual	% Variance	Explanation of variance if over 10%	2018 Budget
---	------------------------	------------------------	-------------------	--	------------------------

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

9. 4901:1-10-26(B)(3)(e) Average remaining depreciation life of distribution and transmission facilities

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
T	Structures & Improvements	352	61.00	1.00	60.00	98.36%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.
T	Station Equipment	353	54.00	2.00	52.00	96.30%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.
T	Towers & Fixtures	354	52.00	1.00	51.00	98.08%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.
T	Poles & Fixtures	355	33.00	2.00	31.00	93.94%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.
T	OH Cond. & Devices	356	53.00	2.00	51.00	96.23%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

9. 4901:1-10-26(B)(3)(e) Average remaining depreciation life of distribution and transmission facilities

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
T	Underground Conduit	357	50.00	5.00	45.00	90.00%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.
T	Underground Conductor	358	26.00	3.00	23.00	88.46%	Asset Total Depreciable Life (Yrs.) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Power plant Reports.

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
T	T - Line Inspections	The intent of line inspections is to check the present condition of a line and determine if any of its components exhibit a near term potential to fail and cause an outage or a safety problem.	Yes
T	T - Line Maintenance	The intent of line maintenance is to avoid line outages and/or safety concerns whenever practical and to minimize the duration of outages when they occur.	Yes
T	T - Right-of-Way Vegetation Control	The intent of right of way maintenance is to minimize line outages and/or safety hazards caused by vegetation growing too near energized conductors. Trees, shrubs and vines that have the potential to grow or fall into transmission lines must be removed or their growth contained.	No
TS	T - Station Inspections	The goals are to (1) prevent unplanned outages or failures and/or safety hazards by identifying and correcting problems during scheduled inspections; and (2) reduce customer outages and associated call-outs for station problems by detecting problems and correcting them in a timely manner.	Yes
TS	T - Circuit Breakers and Reclosers	The goals of this program are to (1) prevent misoperations or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for circuit breaker problems by replacing limited lifetime components in a timely manner.	Yes
TS	T - Transformers	The goals of this program are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; (2) reduce safety hazards, customer outages and associated call-outs for transformer problems by replacing limited lifetime components in a timely manner; and (3) utilize best practices and technology to achieve optimum loading of all transformers.	Yes
TS	T - Voltage Regulators	The goals are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for voltage regulator problems by replacing limited lifetime components in a timely manner.	Yes

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
TS	T - Capacitor Banks	The goals are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for capacitor bank problems by replacing limited lifetime components in a timely manner.	Yes
TS	T - Protection and Control	Protective relaying schemes continually monitor the power system and protect lines and station equipment from damage by isolating those facilities from system disturbances. These sophisticated protective systems are designed to minimize the number of customer outages, safety issues and pieces of equipment affected. The objectives of the maintenance program are to prevent misoperation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	Yes

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Line Inspections	OHTCO has a total of 372 miles of transmission lines ranging from 23 kV to 765 kV in voltage. Various types of construction have been used over the years ranging from typical wood pole structures to large lattice towers. Inspection methods vary and can be performed from the air, ground, or by climbing a structure. All structures or a few targeted structures in a line may be inspected at a given time utilizing one or more inspection methods.	Inspect 514 T-line miles, 100%.	No problems were identified during inspections.
T - Line Maintenance	Data collected as part of the line inspection program is analyzed and categorized to establish a work plan. The most serious items detected that can lead to line outages and/or safety hazards, such as broken poles or cross-arms, are scheduled for prompt corrective action. Less serious problems, such as loose bolts or broken ground wires, which have little or no chance of causing outages or safety issues are catalogued as non-critical and scheduled for replacement or repair in a timely, but less critical manner. Typically, these problems are corrected as general line maintenance is performed but, in some cases, may become part of a capital line rebuild or rehabilitation program.	No problems were identified during inspections.	OH TransCo remedied 0 identified T-line problems in 2017. No problems were identified during inspections in 2017.
T - Right-of-Way Vegetation Control	Data from bi-annual aerial inspections and ongoing ground inspections are used to prioritize schedules and plan the most efficient maintenance techniques. These plans are then implemented by our foresters.	N/A	N/A

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Station Inspections	Each transmission station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.	1	2017 Goal = inspect 33 T-stations on a monthly basis; 2017 Results = inspected 47 T-stations on a monthly basis. (142 % of goal achieved).
T - Circuit Breakers and Reclosers	Preventive maintenance on circuit breakers and reclosers is evolving from traditional time-based maintenance to Condition Based Maintenance (CBM), which includes time and operation intervals. Some of the principles of Reliability Centered Maintenance (RCM) are also being applied. RCM focuses on the reliability of components and is triggered by conditions that exist such as the total number of operations that have occurred since the last maintenance, which indicates the amount of duty (or use) the operating mechanism has incurred.	1	External inspections & maintenance: 2017 Goal = 17; 2017 Results = 18 (106% of goal achieved); Internal inspections & maintenance: 2017 Goal = 0; 2017 Results = 0 (100% of goal achieved);
T - Transformers	Reliable operation of transformers requires that all components of these devices be in serviceable condition. These devices have a number of mechanical and electrical parts that require special attention. The maintenance program for transformers includes procedures that provide for monitoring, testing and planned maintenance to ensure the integrity of these components and the overall performance of the transformers.	1	Minor external inspections & maintenance: 2017 Goal = 4; 2017 Results = 4 (100% of goal achieved); Major internal inspections & maintenance: 2017 Goal = 0; 2017 Results = 0 (100% of goal achieved); Data gathered as part of the monthly station inspections programs will be continually monitored and evaluated. Major transformer maintenance will be scheduled should equipment conditions warrant this action.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Voltage Regulators	Reliable operation of voltage regulators requires that all components of these devices be in serviceable condition. These devices have a number of mechanical and electrical parts that require special attention. The maintenance program for voltage regulators includes procedures that provide for testing and planned maintenance to ensure the integrity of these components and the overall performance of the voltage regulators.	Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2017 for OPCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.	The maintenance performed on voltage regulators during 2017? was the result of monthly station inspections and periodic infrared inspections. Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems when found are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.
T - Capacitor Banks	Reliable operation of capacitor banks requires that all components of these devices and their associated switchgear is in serviceable condition. These devices have relatively few mechanical parts that require special attention. The maintenance program for capacitor banks includes procedures that provide for testing and planned maintenance to ensure the integrity of these components and the overall performance of the capacitor bank.	Since capacitor banks are comprised of sealed units, with essentially no moving parts, minimal maintenance is required. Any maintenance that is required is normally scheduled to coincide with station breaker maintenance.	The maintenance performed on capacitor banks during 2017 was the result of monthly station inspections and periodic infrared inspections. Because capacitor banks have few moving parts most of the problems found were blown fuses and deformed or ruptured cans. As the problems were identified the items were replaced as soon as the equipment was available and the work could be performed.

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Protection and Control	Protective relaying schemes continually monitor the power system and protect lines and station equipment from damage by isolating those facilities from system disturbances. These sophisticated protective systems are designed to minimize the number of customer outages, safety issues and pieces of equipment affected. The objectives of the maintenance program are to prevent misoperation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	T-Calibrations on discrete relays: 2017 Goal = 51; T-Functional trip tests on relay trip paths: 2017 Goal = 307.	T-Calibrations on discrete relays: 2017 Goal = 51; 2017 Results = 98 (192% of goal achieved); T-Functional trip tests on relay trip paths: 2017 Goal = 307; 2017 Results = 689 (224% of goal achieved).

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10b. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "No"

Program Name	Cause(s) for not achieving goals	Description of level of completion	Quantitative description of level of completion	Summary of Findings
T - Line Inspections	N/A			
T - Line Maintenance	N/A			
T - Right-of-Way Vegetation Control	Data from bi-annual aerial inspections and ongoing ground inspections are used to prioritize schedules and plan the most efficient maintenance techniques. These plans are then implemented by our foresters. Upon review of the work, one of the lines did not have sufficient vegetation growth to warrant originally planned work.	The 2017 goal for transmission line right-of-way vegetation control was not achieved.	2017 Goal = maintain 65.5 miles of T-line right-of-way	2017 Results = maintained 45 miles. (68% of goal achieved)
T - Station Inspections	N/A			
T - Circuit Breakers and Reclosers	N/A			
T - Transformers	N/A			
T - Voltage Regulators	N/A			
T - Capacitor Banks	N/A			
T - Protection and Control	N/A			

Notes:

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Line Inspections	A major portion of the conditions found involved structural components such as poles, cross arms, guying and hardware. Insulator problems (chipped, burned, broken) and conductor/shieldwire problems were the next largest group of conditions found. Relatively fewer conditions involved transmission corridor problems such as easement encroachments, landslides or washouts. Various miscellaneous conditions were also noted including, among other things, missing structure numbering signs, damaged FAA markings and foreign attachments.	The line conditions remedied included the most severe structural conditions while the more moderate structural conditions were noted for subsequent corrective action. Defective insulators requiring immediate attention were also replaced. Urgent transmission corridor problems were dealt with immediately, while others may require longer-term litigation or engineering studies to resolve. Additionally, many corrective actions were made to facilities during restoration efforts following major storm activity.	12/31/2017	None required.	

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Line Maintenance	Data collected as part of the line inspection program is analyzed and categorized to establish a work plan. The most serious items detected that can lead to line outages and/or safety hazards, such as broken poles or cross-arms, are scheduled for prompt corrective action. Less serious problems, such as loose bolts or broken ground wires, which have little or no chance of causing outages or safety issues are catalogued as non-critical and scheduled for replacement or repair in a timely, but less critical manner.	Typically, these problems are corrected as general line maintenance is performed but, in some cases, may become part of a capital line rebuild or rehabilitation program.	12/31/2017	None required.	
T - Right-of-Way Vegetation Control	N/A				

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Station Inspections	<p>The replacement of burned out control panel and equipment lights are accomplished during the inspection. Also, station batteries are inspected for corroded terminals and any abnormal cells. Terminals are cleaned and any abnormalities are reported into the tablet computers. Battery ground lights are checked which could indicate a possible ground in the DC system, and the overall battery voltage and battery charger voltage and current are taken and recorded, with the battery charger output voltage adjusted as necessary during the inspection. Control house heaters, air conditioning units or heat pumps are checked to ensure these devices are operating properly. Station grounds are inspected with special attention to the fence and gates to ensure the station is secure. Any problems with the fence or gate are repaired. If permanent repairs cannot be completed at this time it is noted in the tablet computers and temporary repairs are made. During the inspection personnel inspect the yards, structures and equipment for broken insulators,</p>	<p>Typically many of the minor items discovered as part of the Station Inspection Program can be and are remedied during the inspection. The level of resources required and the severity of the findings determine the scheduling and response if the situation cannot be dealt with during the time of the inspection.</p>	12/31/2017	None required.	

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
	bird nests and other yard debris.				

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Circuit Breakers and Reclosers	Of the maintenance performed on substation circuit breakers and reclosers during 2016 should this be 2017?, typical problems discovered are summarized as follows - bushings that exhibited elevated power factor test results, gas leaks, deteriorated oil based on test results, deteriorated or worn internal tank components (interrupters, elevated contact resistance, moisture intrusion), compressor system problems, and mechanism problems.	Typical remediation for bushings that exhibited elevated power factor readings would be an accelerated testing schedule or a scheduled replacement. Gas leaks are addressed based on the severity and the location of the gas leak. If the gas leak is severe, a complete overhaul of the circuit breaker may be required which would be scheduled as soon as practical. Deteriorated oil is typically cleaned and reclaimed by filtering at the time of the circuit breaker/recloser internal inspection, or replaced with new oil if the level of deterioration warrants. Deteriorated or worn internal components are typically replaced or repaired during the circuit breaker/recloser internal inspection, however, judgment is used on continued serviceability and the circuit breaker may be placed on an accelerated inspection schedule. Compressor system problems and mechanism problems are addressed when found as these conditions can affect the timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the	12/31/2017	Problems that affect reliability or safety are addressed at the time maintenance is performed. Other conditions are noted for reference in the normal course of business. Dates are recorded in the IPS Energy Database.	

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
		internal inspection.			

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Transformers	Of the maintenance performed on substation transformers during 2016 should this be 2017?, typical problems discovered are summarized as follows - bushings that exhibited elevated power factor test results, surge arresters that were found deteriorated by test, minor oil leaks, cooling system debris, temperature gauge problems, Load Tap Changer (LTC) contact wear, minor gas system leaks, and LTC filtration unit problems.	Typical remediation for bushings that exhibited elevated power factor readings would be an accelerated testing schedule or a scheduled replacement. Surge arresters found deteriorated based on test results are addressed by an accelerated testing schedule or a scheduled replacement. Typically, most minor oil leaks and minor gas system leaks are addressed in as much as practical on site during preventive maintenance; however, leaks that cannot be easily repaired would be scheduled for repair based on the severity of the condition and the level of resources required. Load Tap Changer contacts exhibiting excessive wear are generally replaced during the LTC inspection process and LTC filtration units are maintained as conditions warrant. Debris in transformer cooling systems (radiators) are typically removed when found, however, transformers with coolers instead of radiators require high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the	12/31/2017	Problems that affect reliability or safety are addressed at the time maintenance is performed. Other conditions are noted for reference in the normal course of business. Dates are recorded in the IPS Energy Database.	

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
	normal course of business.				
T - Voltage Regulators	Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems, when found, are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.	Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems, when found, are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.	12/31/2017	None required.	
T - Capacitor Banks	Prior to each peak load season (winter and/or summer) station capacitor banks are checked, typically during a monthly station inspection, to make sure that the unit is operating properly and will be available when called upon to support system voltages. Should a component failure, such as a capacitor can, fuse or vacuum bottle, be identified as part of the monthly station inspections, the failed unit is simply replaced with a new unit. Typically these repairs are made shortly after the condition is identified.	Prior to each peak load season (winter and/or summer) station capacitor banks are checked, typically during a monthly station inspection, to make sure that the unit is operating properly and will be available when called upon to support system voltages. Should a component failure, such as a capacitor can, fuse or vacuum bottle, be identified as part of the monthly station inspections, the failed unit is simply replaced with a new unit. Typically these repairs are made shortly after the condition is identified.	12/31/2017	None required.	

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Protection and Control	Most of the relay systems were found to be in good operating condition and did not require any corrective maintenance. In some instances, the Protection and Control maintenance program identified relays and relay schemes that were inoperative or partially inoperative due to dirty contacts, coils, associated wiring, or other components. Relays that were found to be inaccurate or inoperative were recalibrated or in some cases replaced if the physical condition warranted. Relay schemes that failed to operate as designed due to component failure were restored to full functionality through a number of means including the cleaning of contacts, the adjustment of components, and the replacement of failed parts.	Any deficiencies identified were either rectified at the time of discovery or as soon as replacement parts were available. The problems that were identified and corrected helped to ensure the safety of our system, reduce outages to customers, and prevent possible damage to other power system equipment.	12/31/2017	Problems that affect reliability or safety are addressed at the time maintenance is performed. Other conditions are noted for reference in the normal course of business. Dates are recorded in the Protection and Control Information System (PCIS) Database.	

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

10d. 4901:1-10-26(B)(3)(f): Current Year Goals

Asset Type	Program Name	Program Goals
T	T - Line Inspections	2018 Goal = Inspect 100% of OHTCO transmission lines.
T	T - Line Maintenance	The 2018 goal is to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.
T	T - Right-of-Way Vegetation Control	2018 Goal = maintain 5 miles of transmission line right-of-way.
TS	T - Station Inspections	2018 Goal = inspect 47 transmission stations on a monthly basis.
TS	T - Circuit Breakers and Reclosers	2018 Goal = 15 external inspections and maintenance; 2018 Goal = 1 internal inspections and maintenance.
TS	T - Transformers	2018 Goal = 25 minor external inspections and maintenance; 2018 Goal = 0 major internal inspections and maintenance.
TS	T - Voltage Regulators	Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2018 for OTC voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.
TS	T - Capacitor Banks	Because capacitor banks are comprised of sealed units, with essentially no moving parts, minimal maintenance is required. Any required maintenance is normally scheduled to coincide with station breaker maintenance.
TS	T - Protection and Control	2018 Goal = 114 T - discrete relay calibrations; 2018 Goal = 964 T - functional trip tests on relay trip paths.

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

11. 4901:1-10-26(B)(3)(f), (B)(3)(iv): Prevention of overloading or excessive loading of facilities and equipment

Transmission or Distribution	Program Name	Program Goals
Transmission	Transmission Planning Process	<p>The planning process, as carried out in the eastern AEP area, provides the focus for establishing an appropriate level of system reliability. The planning process includes seasonal assessments of system performance; near term facility addition studies; and long term strategic planning. The planning process typically begins with a deterministic appraisal of transmission system performance. When such appraisals identify potential problems, detailed studies are conducted to evaluate the severity of the problem and to develop an optimal plan to remove or mitigate the deficiency. The projects listed in Tables 1 and 4 are the network reinforcements for the transmission systems of the Company for the next few years.</p>

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

12. 4901:1-10-26(B)(3)(f), (B)(3)(iv): Actions to remedy overloading or excessive loading of facilities and equipment

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	TLN160:04121 - Newcomerstown - North Coshocton 69 kV	11/1/2014	Rebuild approximately 1.56 miles of the East Coshocton – North Coshocton 34 kV line.	6/1/2019	N/A	
Transmission	TLN160:02233 - Torrey - Bliss Park 69V	9/15/2017	Rebuild the 69kV line between Torrey - Gambrinus Road (1.3 mile).	12/1/2018	Monitor area and perform operational switching as necessary, until planned line reconductor is complete in 2018.	
Transmission	TLN160:02217 - June Road - Pekin 69kV	11/1/2016	Rebuild 69kV circuit between June Road & Pekin stations (5.4 mi.).	6/1/2020	Planned T-Line rebuild; until that time, perform switching solutions as needed to avoid real-time overloads.	
Transmission	TLN130:0C911 - Poston - Floodwood TLN130:0C935 - Floodwood - Berlin	6/1/2011	Retire the 69 kV system in the area, which is approximately 90 years old, and transfer the load to a more bulk reliable 138 kV system.	12/1/2018	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	
Transmission	TLN 160:04085 - East Cambridge - Senecaville TLN160:04083 - Mineral Siding - Antrim	2/1/2016	Install a new 69kV line from Flushing station to Smyrna station (approximately 12 miles). Install 69 kV circuit breakers at Flushing station, Smyrna station and Vail Sw. station. Install new distribution equipment at Flushing and Smyrna stations.	12/1/2020	Limit the amount of load that can attach to the existing 34.5kV circuit, until this project is completed.	

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

12. 4901:1-10-26(B)(3)(f), (B)(3)(iv): Actions to remedy overloading or excessive loading of facilities and equipment

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	TLN130:0C729 - Harrison - Circleville TLN380:0C717 - Scioto Trail - Circleville TLN130:0C727 - Delano - Scioto Trail TLN130:0C736 - Ross - Delano TLN130:0C743 - Waverly - Ross TLN380:0C734 - Poston - Ross	2/1/2012	Construct 345/138/69 kV station with 2 -138 kV outlets and 2-69 kV outlets. Solve loading and low voltage issues under contingency conditions. Convert 1-69/12 kV station to 138/12 kV. Install various 345 kV, 138 kV, and 69 kV breakers to improve area reliability.	12/1/2017	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	12/31/2017
Transmission	TLN130:0C854 - Parkersburg (APS) - Corner	12/1/2014	Rebuild the Corner - Parkersburg 138 kV line. Loop the Crooksville - Muskingum 138 kV circuit into Philo station. Install 138 kV circuit breakers at North Muskingum and Philo station. Install 138 kV capacitor banks at Gorsuch station.	12/31/2018	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	
Transmission	TLN130:0C729 - Harrison - Circleville TLN380:0C717 - Scioto Trail - Circleville TLN130:0C727 - Delano - Scioto Trail TLN130:0C736 - Ross - Delano TLN130:0C743 - Waverly - Ross TLN380:0C734 - Poston - Ross	12/12/2012	Upgrade 138 kV through path from Harrison station through Circleville station to Ross station. Rebuild Circleville-Harrison 138 kV line and Delano-Ross 138 kV line as double circuit.	12/31/2017	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	12/31/2017

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

12. 4901:1-10-26(B)(3)(f), (B)(3)(iv): Actions to remedy overloading or excessive loading of facilities and equipment

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	TLN160:00001 - Lima-Fort Wayne	1/1/2014	V1-012 lpp Haviland. Connect 150 MW of new IPP generation at Haviland 138 kV Station.	12/30/2018	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	
Transmission	TLN160:00005 - Windsor-Canton	6/1/2011	Reconductor and rebuild the 55 mile Sunnyside-Tidd 138kV transmission line due to age (was built in 1918) and overload concerns.	6/1/2020	Can re-dispatch generation at Cardinal Plant by PJM, if needed. Can also perform 138kV switching solutions to re-route power in the area.	
Transmission	TLN160:01167 - South Cadiz-Consolidation Coal	9/1/2014	Nottingham Switch-South Cadiz 138 kV. New 138kV switching station and new 138kv T-Lines.	12/1/2017	AEP Operational Switching, to maintain reliability in the area, and re-route power as needed.	12/31/2017
Transmission	TLN160:01195 - Dennison-Desert Rd	6/1/2014	Yager project. Construct new 138kV interconnection station with FirstEnergy. Add 138-69kV transformer source. Rebuild local 69kV lines for added capacity. All to be able to reliably serve major industrial loads in the area.	12/1/2017	69kV switching procedures by Transmission Operations, to sectionalize the 69kV network other 69kV lines have already been reconducted nearby.	10/1/2017
Transmission	TLN160:04001 - Ohio Central-Cyclops	2/1/2017	Rebuild Ohio Central-Cyclops 69kV T-Line.	6/1/2019	Carefully monitor area power flows and re-route power during emergencies (switching solutions).	
Transmission	TLN160:00046 - Muskingum-Summerfield	9/1/2016	Construct new Herlan switching station and Herlan-Blue Racer 138kV T-Line.	6/1/2020	Carefully monitor area power flows and re-route power during emergencies (switching solutions).	
Transmission	TLN160:01099 - Glencoe-Speidel TLN160:01095 - Robyville-South Cadiz	6/1/2016	Construct West Bellaire-Glencoe 138kV T-Line and expand Glencoe 138-69kV substation.	6/1/2019	Carefully monitor area power flows and re-route power during emergencies (switching solutions).	

Notes:

Report date: 3/28/2018

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

13. 4901:1-10-26(B)(3)(f), (B)(3)(f)(vi): Programs deleted

Facility Type	Deleted Program Name
---------------	----------------------

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

14. 4901:1-10-26(B)(3)(f), (B)(3)(f)(vi): Programs modified

Facility Type	Deleted Program Name
---------------	----------------------

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

15. 4901:1-10-26(B)(3)(f), (B)(3)(f)(vi): Programs added

Facility Type	Deleted Program Name
---------------	----------------------

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2017

16. 4901:1-10-26(B)(4): Service interruptions due to other entity

Date of Interruption	Time of Interruption	Type of entity causing interruption	Name of entity causing interruption	Impact on Transmission or Distribution	Sub/Circuit Interrupted	Cause of interruption
?	?	N/A	N/A	N/A	N/A	N/A

Notes: None to Report

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/29/2018 2:26:46 PM

in

Case No(s). 18-0996-EL-ESS

Summary: Report - Annual Rule 26 Report of AEP Ohio Transmission Company, Inc.
submitted for the year 2017 electronically filed by Mr. Steven T Nourse on behalf of AEP Ohio
Transmission Company