



Legal Department

American Electric Power
1 Riverside Plaza
Columbus, OH 43215-2373
AEP.com

March 31, 2014

Chairman Todd A. Snitchler
Public Utilities Commission of Ohio
Ohio Power Siting Board
180 East Broad Street
Columbus, Ohio 43215-3793

Matthew J. Satterwhite
Senior Counsel –
(614) 716-1915 (P)
(614) 716-2014 (F)
mjsatterwhite@aep.com

Re:

In the Matter of the Annual Report of)
Ohio Power Company)
Pursuant to Rule 26 of the Electric)
Service and Safety Standards, Ohio)
Administrative Code 4901:1-10-26)
Case No. 14-996-EL-ESS
In the Matter of the Annual Report of)
AEP Ohio Transmission Company)
Pursuant to Rule 26 of the Electric)
Service and Safety Standards, Ohio)
Administrative Code 4901:1-10-26)

Dear Chairman Snitchler:

Attached please find the Rule 26 Report for the AEP Ohio Transmission Company (Ohio Transco). The Commission Staff reserved docket numbers and instructed the Ohio Transco and Ohio Power Company to file both reports in this designated docket. The Companies are copying John Williams, Director of the Service Monitoring and Enforcement Department. Please contact me if there are any further questions.

Cordially,

//s//Matthew J. Satterwhite
Matthew J. Satterwhite
Senior Counsel

cc: John Williams, Director SMED

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Annual Report of	:	
AEP Ohio Transmission Company	:	
Pursuant to Rule 26 of the Electric	:	Case No. 14-996-EL-ESS
Service and Safety Standards, Ohio	:	
Administrative Code 4901:1-10-26	:	

**ANNUAL REPORT
OF THE AEP OHIO TRANSMISSION COMPANY COMPANY**

Pursuant to Rule 26 of the Electric Service and Safety Standards, Ohio, Administrative Code 4901:1-10-26, AEP Ohio Transmission Company ("OTC") submits the following Annual Report. The Report is attached.

We/I certify that the following Report accurately and completely reflects the Annual Report requirements pursuant to Rule 26 of the Electric Service and Safety Standards, Ohio, Administrative Code 4901:1-10-26

N/A, N/A
Responsible For Distribution Reporting

Date

Lisa Barton, Executive Vice President AEP Transmission
Responsible For Transmission Reporting

Date

Report Date & Time: March 31, 2014 1:18 pm

**American Electric Power
AEP Ohio Transmission Company
Rule #26
2013
Electric Service And Safety Standards**

1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years)

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2005-004	T	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.	Athens subtrans mission area	This is a load area of about 400 MW.	80,000,000	06/01/2011	03/01/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

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TP-2005-151	T	New 765/345 kV Vassell Station with 4-750 MVA single phase transformers with a position for a switchable spare. A 345 & 138 kV station with three 345 kV lines & one 138 kV Line plus other Columbus Area 138 kV Improvements.	Central Ohio.	Transmissio n Grid impacting over 4,000 MW's of peak load.	186,000,000	06/01/2010	05/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

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TP-2007-122	T	Enhance the reliability of the system in the Mount Vernon and Newark area by enhancing the protection system, replacing obsolete equipment and increasing the capacity of the transmission system.	Mt Vernon and Newark	This is a load area of about 200 MW.	46,000,000	06/01/2009	06/01/2015	

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TP-2007-152	T	Install the new greenfield North New Lexington 138/69 kV station to provide a new source to the Somerset area.	New Lexington Area	The Somerset area has had many operations in the last five years.	70,000,000	11/04/2013	06/01/2020	
TP-2009-120	T	Un-six-wire the Hyatt - Sawmill 138 kV circuit and install 138 kV station terminal equipment to establish two Hyatt - Sawmill 138 kV circuits including circuit breakers.	Northwest Columbus area.	Approximately 400 MW	8,000,000	04/01/2012	06/01/2014	

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TP-2009-174	T	Rebuild 19 miles of 138 kV line forecasted overload by 2014.	Southwest Columbus & Lancaster	Approximately 140 MVA	12,500,000	05/01/2010	05/01/2014	

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TP-2011-027	T	Install 2-345kV 63kA breaker on the Tangy (O.E.) line, upgrade the line relay and bus differential #1 upgrades. This will eliminate the existing (O.E.) line connection directly to 345kV Bus #1 and it will improve the reliability of the system in case of a line fault or a bus fault.	Western OH Marysville	Enhancing the reliability of tie lines with First Energy.	2,615,000	12/04/2012	12/31/2014	

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TP-2011-065	T	Convert 69/12 kV station to 138 kV. Rebuild portion of existing 69 kV radial line as double circuit 138 kV and serve from Wildcat-Kenton 138 kV line. Project will improve reliability to customers served from Sardinia station.	69 kV & 138 kV system in Southern Ohio	This is a load area of about 10 MW.	12,000,000	03/01/2016	12/31/2019	

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TP-2011-070	T	Install new 69kV switch to serve SCP customer load. Customer requested service for expanded coal mining operation in Beallsville, OH.	Beallsville Area	This area has approximately 40 MW of load.	470,000	06/01/2013	04/01/2014	
TP-2011-075	T	Rebuild existing North Findlay #1 and New Liberty 34.5 kV lines to North Baltimore	Will reinforce the 138 and 69 kV systems in the Western Ohio area.	This is a load area of about 200 MW.	37,250,000	02/01/2012	12/01/2018	

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TP-2011-086	T	Rebuild the Jug - Kirk 345 kV line with a 345 & 138 kV double circuit mono pole line.	New Albany to Pataskala , Ohio.	Approximately 100 MVA	57,000,000	06/01/2011	12/01/2014	
TP-2011-134	T	Build new 138 kV switching station to help alleviate undervoltage issues in Fremont area.	Western Ohio	Approx. 20 MVA	50,000,000	06/01/2011	12/30/2016	

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TP-2012-019	T	Establish Amlin Station in the Dublin Ohio industrial park area. Build a 138 kV line from Hyatt station utilizing the vacant tower position on the Hayden - Hyatt 345 kV line.	Dublin, Ohio area.	Approximately 75 MVA	19,000,000	01/01/2012	06/01/2014	

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TP-2012-033	T	With the recent customer load increases in the Dennison-Miller-Cadiz area, some facilities are seeing loadings over their permitted ratings. The loads in question are located at Crimm Road, Adobe Switch and Jewett Switch. This particular section feeds two large gas processing plants and a coop delivery point and was	Harrison County	The load in the area is approximately in the 100MW and with the possibility of increasing rapidly due to shale gas activity	17,000,000	03/01/2013	06/01/2014	

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		seeing heavy loadings for system normal conditions. Hence, this project proposes to rebuild the line with a high capacity conductor.						
TP-2012-063	T	Replace existing 138 kV GOAB switches at North Zanesville and Powelson with 138 kV MOAB switches and circuit breakers.	Zanesville Area	This improvement will increase the reliability for 65 MW comprised in this circuit.	3,130,000	03/15/2012	06/01/2014	

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TP-2012-104	T	Install SCADA control on targeted equipment for improved reliability. Upgrade strategic protective 138 and 69 kV devices.	This project will have a positive reliability impact on the 138, 69, and 12 kV systems in the south central Ohio area.	This area of the system is remote from any staffed locations and could greatly benefit from switching devices being operated remotely.	10,000,000	03/01/2014	12/31/2016	

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TP-2012-111	T	AEP and ATSI 2015 Generation retirements flagged overloads in the Coshocton area and vicinity for which system improvements need to be implemented to alleviate such.	Coshocton Area and vicinity	AEP and FE generation retirements from environmental regulations will cause transmission system overloads in the area.	15,000,000	11/01/2012	12/31/2016	

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TP-2012-118	T	AEP and ATSI 2015 Generation retirements flagged overloads in the Southeastern Ohio area for which system improvements need to be implemented to alleviate such.	Southeastern Ohio area	AEP and FE generation retirements from environmental regulations will cause transmission system overloads in the area.	200,000,000	11/01/2012	12/31/2016	

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TP-2012-125	T	Multiple sag studies that will increase the rating on multiple circuits. Reconductor Kammer-West Bellaire 345kV Circuit with higher capacity conductor.	This project will impact multiple lines in the Eastern Ohio area.	The affected lines do not have enough capacity due to sag limitations or are undersized.	30,000,000	06/01/2012	06/01/2015	

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TP-2012-132	T	138kV CB at Saint Clair Ave Station was identified by PJM as an overdutied breaker and needs to be replaced no later than 06/2015. Additional breaker replacements were targeted in the list & it was determined to upgrade all the identified breakers & relays with this project to improve	Columbus and North Central Columbus Area, Franklin County	Approx load in the area is 500 MVA	6,000,000	12/07/2012	12/19/2016	

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		equipment conditions & system reliability with the newer units.						
TP-2013-024	T	Install new 138kV station to serve customer load. Customer requested service for a new compression facility located in Amsterdam. This will be an interconnection with FE.	Amsterdam Ohio Area	The Amsterdam area is scarce of AEP 138kV sources; the interconnection with FE will help AEP serve this load.	1,500,000	02/01/2014	09/01/2014	

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TP-2013-092	T	Install new 69kV station to serve customer load. Customer requested service for a new compression facility located in Scio,OH.	Scio Area	The Dennison-Miller SW 69kV line will have approximately 100 MW of load in the short term.	43,000,000	06/01/2013	03/01/2014	
TP-2013-134	T	Enhance the reliability in the Pomeroy area. Install 69 kV circuit breakers and install a 69 kV loop.	Pomeroy Area	Project will allow AEP Ohio to retire deteriorated 34/12 and 34/4 kV Pomeroy Station, and migrate load to 69/12 kV Hemlock Station.	6,000,000	09/15/2013	12/15/2014	

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TP-2013-137	T	With the recent customer load increases in the Dennison-Miller-Cadiz area, some facilities are seeing loadings over their permitted ratings. The loads in question are located at Crimm Road, Adobe Switch and Jewett Switch. The manner in which power flows allows the East Amsterdam source to pick up more than it	Amsterdam, OH Harrison & Jefferson Counties	The load in the area is approximately in the 150MW and with the possibility of increasing rapidly due to shale gas activity	13,000,000	12/13/2013	05/31/2015	

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		should and thus overloading the East Amsterdam-Miller SW 69kV circuit part of the Dillonvale - Amsterdam 69kV line. It is currently seeing roughly 53 MVA and its rating is only 35 MVA and thus creating an overload of 112% of its rating. The East Amsterdam-Miller SW 69kV circuit was built in 1918 on wood poles and 1/0 Copper conductor.						

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TP-2013-149	T	Create 69 kV loop between Trabue - Battelle - Blair and Galloway. Convert Battelle service from 40 kV to 69 kV	Southeast Columbus area, near West Jefferson	Approximately 25 MVA	10,000,000	01/01/2014	12/01/2015	
TP-2013-163	T	Install new 69kV station to serve customer load. Customer requested service for a new compression facility located in Pekin, OH.	Pekin Area	The Pekin-Hamm ondsville line has approximately 30 MW of load to serve.	12,000,000	03/01/2013	12/31/2014	

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TP-2013-170	T	Rebuild the Muskingum - Wolf Creek section of the Muskingum - Corner 138 kV circuit to address the thermal violations caused by Alleghany Generation retirements.	Muskingum Area	Eliminates overloads on the Muskingum - Wolf Creek section of the Muskingum - Corner 138 kV circuit caused by the APS generation retirements.	10,000,000	11/27/2013	06/01/2015	

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TP-2013-197	T	Install new 345kV 3 breaker ring bus station to connect 500 MW gas fueled generation plant by tapping the Tidd-Canton Central 345kV line. Developer requested interconnection with AEP through PJM.	Carrollton Area	The proposed 500 MW of generation will help support the Canton area.	50,000,000	12/31/2014	08/30/2017	

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TP-2014-020	T	Construct switching station interconnecting with several FE Lines to reinforce shale development areas.	Eastern Ohio in and around Harrison County.	Prevents overloads; this area is experiencing very rapid shale development	20,000,000	09/01/2014	12/01/2017	

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1.a. 4901:1-10-26 (B)(1)(a) Relevant Characteristics Of The Service Territory

Facility Type	Total Overhead Miles	Total Underground Miles	Other Notable Characteristics
T	47	0	0
D	0	0	

Notes

There are no Distribution Facilities to report.

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1.b 4901:1-10-26 (B)(1b) Future investment plan for facilities and equipment (covering period 2013 to 2017)

All Cost	2013		2014	2015	2016	2017
	Planned	Actual	Planned	Projected	Projected	Projected
D	\$0	\$0	\$0	\$0	\$0	\$0
T	\$108,012,000	\$133,013,000	\$73,330,000	\$44,035,000	\$117,013,000	\$163,913,000

Notes

There are no future investment plan for Distribution facilities and equipment associated with the AEP Ohio Transmission Company.

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2. 4901:1-10-26 (B)(1)(d)&(f) Complaints From Other Entities

a.	b.	c.	d.	e.	f.	g.
Complaint(s) from other electric utility companies, regional transmission entity, or competitive retail electric supplier(s) (list individually)	Date complaint received	Nature of complaint	Action taken to address complaint	Complaint resolved (Yes or No)	Date resolved	If unresolved give explanation why

Notes

There were no Complaints From Other Entities to report in 2013.

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3.a. 4901:1-10-26 (B)(1)(e) Electric Reliability Organization Reliability Standards Violation

Standard number violated	Standard name violated	Date of violation	Violation risk factor	Violation severity factor	Total amount of penalty dollars	Description

Notes

There were no Electric Reliability Organization Reliability Standards Violations to report for 2013.

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

Name of RTO violation	Description

Notes

There were no Regional Transmission Organization (RTO) Violations to report for 2013.

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

TLR Event Start	TLR Event End	Highest TLR level during event	Firm load interrupted	Amount of load (MW) interrupted	Description

Notes

There were no Transmission Load Relief (TLRs) to report for 2013.

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3.d. 4901:1-10-26 (B)(1)(e) Top Ten Congestion Facilities By Hours Of Congestion

Rank	Description of facility causing congestion

Notes

There were no congested facilities to report for 2013.

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

Relationship between annual system improvement plan and RTO transmission expansion plan
<p>The transmission planning process for the AEP Ohio Transmission Company is performed by the AEP Service Corporation and PJM, the Regional Transmission Organization (RTO) that has functional control of the AEP Ohio Transmission Company transmission 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, transmission projects are identified and approved for inclusion in the annual PJM Regional Transmission Expansion Plan (RTEP).</p>

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2005-059	T	06/30/2015		Changed completion date.	Internal funding delay.
TP-2006-107	T	12/01/2017		Changed completion date.	Further scoping details and scheduling indicate delays.
TP-2007-020	T	12/01/2018		Project in-service date has been delayed.	The project is delayed because of funding constraints.
TP-2007-153	T	06/01/2014		Changed completion date.	Construction delays.
TP-2008-081	T	12/01/2014		Changed completion date.	Project completion date changed due to a delay at another station.
TP-2009-134	T	12/31/2014		This project may no longer be completed.	Pending feedback from customer. They may be served from First Energy and no longer have AEP service.

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period ... Continued ...

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2009-172	T	06/01/2015		Project in-service date has been delayed.	Project work was staggered to get necessary outages.
TP-2010-110	T	12/31/2015		Cost changed	Revised estimates
TP-2010-143	T	12/01/2018		Project in-service date has been delayed.	The need for Cole Station has been delayed.
TP-2010-150	T	06/01/2013	10/19/2012	Changed completion date.	Project Complete.
TP-2011-039	T	06/01/2021		Deferred project pending further development.	Available space limits improvement options so additional planning and development is required.
TP-2011-075	T	12/01/2018		Changed completion date.	Further scoping details and scheduling indicate delays.
TP-2012-161	T	04/01/2016		Changed planned completion date.	Land acquisition delays.

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period ... Continued ...

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2013-009	T	12/31/2017		Changed dates.	PJM approval obtained. Project under development.

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5. 4901:1-10-26 (B)(3)(a) Characterization Of Condition Of Company's System

	a.	b.
Type of System	Qualitative characterization of condition or system	Explanation of criteria used in making assessment for each characterization
T	<p>The initial construction of overhead and underground facilities follows AEPs material and construction standards that incorporate National Electric Safety Code requirements. These standards were adopted to safely and reliably operate AEPs 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. Industry research and AEPs experience and expertise in the construction, operation and maintenance of transmission and distribution systems in varied geographic and demographic areas are applied to manage and maintain AEPs assets. AEP develops objectives and plans to achieve optimal performance in a safe and reliable manner over the expected life of asset, while at the same time balancing costs and benefits. An example of this type of planning can be demonstrated in AEPs annual operation and maintenance plans.</p>	<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. 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>

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5. 4901:1-10-26 (B)(3)(a) Characterization Of Condition Of Company's System ... Continued ...

	a.	b.
Type of System	Qualitative characterization of condition or system	Explanation of criteria used in making assessment for each characterization
D	N/A	N/A

Notes

There is no Characterization Of Condition Of Company's System for Distribution. AEP Ohio Transmission Company is a Transmission only company.

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6. 4901:1-10-26 (B)(3)(b) Safety and Reliability Complaints

	a.
Type of system	Total number of safety & reliability complaints received directly from customers
T	0

Notes

There were no Safety and Reliability Complaints to report in 2013.

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6.a. 4901:1-10-26 (B)(3)(b) Safety and Reliability Complaints Detailed Report

	1.	2.	3.	4.	5.	6.	7.
Type of system	Availability of service	Damage	Momentary interruption	Out of service	Quality of utility product	Repair service	Public safety
T	0	0	0	0	0	0	0

Notes

There were no Safety and Reliability Complaints to report in 2013.

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7.a. 4901:1-10-26 (B)(3)(c) Transmission Capital Expenditures - Reliability Specific

Total transmission Investment = \$546,738,447

Account \ SubAccount	2013 budget	Budget as percent of investment	2013 actual	Actual as percent of investment	2014 budget	Current as percent of investment	Explanation of variance if over 10%
Construction Transmission FERC ACCOUNTS 107	108,012,000	19.76%	133,013,000	24.33%	73,330,000	13.41%	Variance due to timing of spend to meet 2014 in service date requirements.

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7.b. 4901:1-10-26 (B)(3)(c) Transmission Maintenance Expenditures - Reliability Specific

Total transmission investment = \$546,738,447

Account \ SubAccount	2013 Budget	Budget as percent of investment	2013 Actual	Actual as percent of investment	2014 Budget	Current as percent of investment	Explanation of variance if over 10%
Electric Transmission Operations FERC ACCOUNTS 560 through 567	4,043,000	0.74%	585,000	0.11%	2,987,000	0.55%	Lower operational cost and outside services.
Electric Transmission Maintenance FERC ACCOUNTS 568 through 573	149,000	0.03%	69,000	0.01%	215,000	0.04%	No explanation required. Variance less than +/- 10%

Notes

Transmission dollars have been rounded to the nearest 000's.

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8.a. 4901:1-10-26 (B)(3)(d) Distribution Capital Expenditures - Reliability Specific

Total distribution investment =

Account \ SubAccount	Budget	Budget as percent of investment	Actual	Actual as percent of investment	Budget	Current as percent of investment	Explanation of variance if over 10%
		0.00%		0.00%		0.00%	

Notes

There were no Distribution Capital Expenditures.

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8.b. 4901:1-10-26 (B)(3)(d) Distribution Maintenance Expenditures - Reliability Specific

Total distribution investment =

Account \ SubAccount	Budget	Budget as percent of investment	Actual	Actual as percent of investment	Budget	Current as percent of investment	Explanation of variance if over 10%
		0.00%		0.00%		0.00%	

Notes

There were no Distribution Maintenance Expenditures.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
D			0	0.00	0	0.00%	
T	OH Cond. & Devices	356	80	5.00	75	93.75%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Poles & Fixtures	355	57	12.00	45	78.95%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.
T	Station Equipment	353	50	0.00	50	100.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Structures & Improvements	352	75	8.00	67	89.33%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.
T	Underground Conductor	358	60	13.00	47	78.33%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Underground Conduit	357	55	0.00	55	100.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

Notes

Note (1): Transmission assets noted above do not include Accounts 350, 359, and 359.1. Accounts 350 - Land and Land Rights, 359 - Roads and Trails, and 359.1 - Asset Retirement Costs for Transmission Plant represent non-depreciable assets.

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10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation Programs Summary Report

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	The maintenance performed on capacitor banks during 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	External inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Internal inspections & maintenance: 2012 Goal = 0; 2012 Results = 0 (100% of goal achieved);

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	D-Calibrations on discrete relays: 2013 Goal = 0 2013 Results = 0 (100% of goal achieved); D-Functional trip tests on relay trip paths: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved);

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	2013 Goal = inspect 0 D-stations on a monthly basis; 2013 Results = inspected 0 D-stations on a monthly basis. (100% of goal achieved since one station was retired.).

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	Minor external inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Major internal inspections & maintenance: 2013 Goal = 0; 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	The maintenance performed on voltage regulators during 2013 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.

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	The maintenance performed on capacitor banks during 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	External inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Internal inspections & maintenance: 2013 Goal = 0 2013 Results = 0 (100% of goal 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.	Y	2013 Goal = inspect 116 T-line miles; 2013 Results = 100% of transmission lines inspected.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	OHTCO remedied 0 identified T-line problems in 2013. No problems were identified during inspections in 2013.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	T-Calibrations on discrete relays: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); T-Functional trip tests on relay trip paths: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved)

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	2013 Goal = maintain 25 miles of T-line right-of-way; 2013 Results = maintained 148.9 miles. (600% of goal achieved)
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.	Y	2013 Goal = inspect 0 T-stations on a monthly basis; 2013 Results = inspected 10 T-stations on a monthly basis. (More than 100% of goal achieved).

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	Minor external inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Major internal inspections & maintenance: 2013 Goal = 0; 2013 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.

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	The maintenance performed on voltage regulators during 2013 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.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes"

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes"

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Capacitor Banks</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the capacitor bank.</p>	<p>Maintenance was performed, as necessary, on distribution station capacitor banks as identified during monthly station inspections and periodic infrared inspections.</p>	<p>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.</p>	<p>The maintenance performed on capacitor banks 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes"

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				available and the work could be performed.
<p>D - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	<p>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.</p>	<p>The 2013 goals for distribution circuit breaker and reclosure inspection and maintenance were achieved.</p>	<p>2013 Goal = 0 external inspections & maintenance; 2013 Goal = 0 internal inspections & maintenance.</p>	<p>2013 Results = 0 external inspections & maintenance. (100% of goal achieved); 2013 Results = 0 internal inspections & maintenance. (100% of goal achieved)</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Protection and Control</p> <p>GOAL - 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</p>	<p>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.</p>	<p>The 2013 goals for distribution station discrete relay calibrations and trip path functional tests were achieved and exceeded.</p>	<p>2013 Goal = 0 D - discrete relay calibrations 2013 Goal = 0 D - functional trip tests on relay trip paths.</p>	<p>2013 Results = 0 calibrations on discrete relays. (100% of goal achieved) 2013 Results = 0 functional trip tests on relay trip paths. (100% of goal achieved)</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
customer outages minimize maintenance call-outs and maximize the life of station equipment.				
D - Station Inspections GOAL - 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.	Each distribution station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.	The 2013 goal for distribution station inspections on a monthly basis was achieved.	2013 Goal = inspect 0 D-stations on a monthly basis.	2013 Results = inspected 0 D-stations on a monthly basis. (100% of goal achieved since one station was retired.).

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Transformers</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the transformers.</p>	<p>The 2013 goals for distribution station transformer inspections and maintenance were achieved.</p>	<p>2013 Goal = 0 minor external inspections & maintenance and 0 major internal inspections & maintenance.</p>	<p>2013 Results = 0 minor external inspections & maintenance. (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. 0 major internal inspection was completed in</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				2013. (100% of goal achieved).

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Voltage Regulators</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the voltage regulators.</p>	<p>Maintenance was performed, as necessary, on distribution station feeder regulators and/or bus regulators as identified during monthly station inspections.</p>	<p>Based on experience and results of previous monthly station inspections, no distribution station feeder or bus regulator maintenance was planned in 2013 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored</p>	<p>The maintenance performed on voltage regulators 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				time or subsequently scheduled for repair or replacement of the voltage regulator.

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Capacitor Banks</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the capacitor bank.</p>	<p>Maintenance was performed, as necessary, on transmission station capacitor banks as identified during monthly station inspections and periodic infrared inspections.</p>	<p>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.</p>	<p>The maintenance performed on capacitor banks 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				available and the work could be performed.
<p>T - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	<p>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.</p>	<p>The 2013 goals for transmission circuit breaker and recloser inspection and maintenance were achieved and exceeded.</p>	<p>2013 Goal = 0 external inspections & maintenance 2013 Goal = 0 internal inspections & maintenance.</p>	<p>2013 Results = 0 external inspections & maintenance (100% of goal achieved) 2013 Results = 0 internal inspections & maintenance (100% of goal achieved).</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Line Inspections</p> <p>GOAL - 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.</p>	<p>OHTCO has a total of 58 miles of transmission lines ranging from 69 kV to 138 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.</p>	<p>2013 goal for transmission line inspections was achieved.</p>	<p>2013 Goal = Inspect 116 T-line miles.</p>	<p>2013 Results = 100% of OHTCO transmission lines inspected.</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Line Maintenance</p> <p>GOAL - 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.</p>	<p>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</p>	<p>2013 maintenance was scheduled and performed, as necessary, on transmission lines issues that were identified during inspections.</p>	<p>The 2013 goal was to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.</p>	<p>The number of identified problems remedied in OHTCO during 2013 is 0. No problems were identified during inspections in 2013.</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
	program.			

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Protection and Control</p> <p>GOAL - 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</p>	<p>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.</p>	<p>The 2013 goals for transmission station discrete relay calibrations and trip path functional tests were achieved.</p>	<p>2013 Goal = 0 T - discrete relay calibrations; 2013 Goal = 0 T - functional trip tests on relay trip paths.</p>	<p>2013 Results = 0 calibrations on discrete relays. (100% of goal achieved); 2013 Results = 0 functional trip tests on relay trip paths. (100% of goal achieved).</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
customer outages; minimize maintenance call-outs and maximize the life of station equipment.				
T - Right-of-Way Vegetation Control GOAL - 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.	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.	The 2013 goal for transmission line right-of-way vegetation control was achieved and exceeded.	2013 Goal = maintain 25 miles of T-line right-of-way.	2013 Results = maintained 148.9 miles. (600% of goal achieved)

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Station Inspections</p> <p>GOAL - 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.</p>	<p>Each transmission station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.</p>	<p>The 2013 goal for transmission station inspections on a monthly basis was achieved.</p>	<p>2013 Goal = inspect 0 T-stations on a monthly basis.</p>	<p>2013 Results = inspected 10T-stations on a monthly basis. (More than 100% of goal achieved).</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Transformers</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the transformers.</p>	<p>The 2013 goal for transmission transformer inspection and maintenance were achieved.</p>	<p>2013 Goal = 0 minor external inspections & maintenance and 0 major internal inspection & maintenance .</p>	<p>2013 Results = 0 minor external inspections & maintenance. (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. 0 major internal inspection was completed in</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				2013. (100% of goal achieved).

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Voltage Regulators</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the voltage regulators.</p>	<p>Maintenance was performed, as necessary, on transmission station feeder regulators and/or bus regulators as identified during monthly station inspections.</p>	<p>Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2013 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored</p>	<p>The maintenance performed on voltage regulators 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				time or subsequently scheduled for repair or replacement of the voltage regulator.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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10b. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "D" Of Report 10 Is "No"

1.	2.	3.	4.	5.
Program name	Cause(s) for not achieving goal(s)	Description of level of completion of goal	Quantitative description of goal in either numerical values or percentages	Quantitative description of level of completion of goal in either numerical values or percentages

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Capacitor Banks</p> <p>GOAL - 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.</p>	TS	<p>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</p>	<p>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</p>	12/31/2013	None required.	

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		the condition is identified.	are made shortly after the condition is identified.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	TS	Of the maintenance performed on substation circuit breakers and reclosers during 2012, 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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			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			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the internal inspection.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Protection and Control</p> <p>GOAL - 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</p>	TS	<p>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</p>	<p>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.</p>	12/31/2013	<p>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.</p>	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
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.		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.				

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Station Inspections</p> <p>GOAL - 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.</p>	TS	<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</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>	12/31/2013	None required.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		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				

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		inspect the yards, structures and equipment for broken insulators, bird nests and other yard debris.				

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Transformers</p> <p>GOAL - 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</p>	TS	Of the maintenance performed on substation transformers during 2012, 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 Load Tap Changer (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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
achieve optimum loading of all transformers.			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			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the normal course of business.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Voltage Regulators</p> <p>GOAL - 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.</p>	TS	<p>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.</p>	<p>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.</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Capacitor Banks</p> <p>GOAL - 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.</p>	TS	<p>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</p>	<p>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</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		the condition is identified.	are made shortly after the condition is identified.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	TS	Of the maintenance performed on substation circuit breakers and reclosers during 2012, 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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			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			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the internal inspection.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Line Inspections</p> <p>GOAL - 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.</p>	T	<p>A major portion of the conditions found involved structural components such as poles, crossarms, 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</p>	<p>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</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		other things, missing structure numbering signs, damaged FAA markings and foreign attachments.	during restoration efforts following major storm activity.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Line Maintenance</p> <p>GOAL - 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.</p>	T	<p>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</p>	<p>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.</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		a timely, but less critical manner.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Protection and Control</p> <p>GOAL - 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</p>	TS	<p>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</p>	<p>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.</p>	12/31/2013	<p>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.</p>	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
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.		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.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Right-of-Way Vegetation Control</p> <p>GOAL - 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.</p>	T					

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Station Inspections</p> <p>GOAL - 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.</p>	TS	<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</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>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		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				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		inspect the yards, structures and equipment for broken insulators, bird nests and other yard debris.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Transformers</p> <p>GOAL - 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</p>	TS	Of the maintenance performed on substation transformers during 2012, 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 Load Tap Changer (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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
achieve optimum loading of all transformers.			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			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the normal course of business.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Voltage Regulators</p> <p>GOAL - 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.</p>	TS	<p>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.</p>	<p>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.</p>	12/31/2013	None required.	

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Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	D - Capacitor Banks	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.
TS	D - Circuit Breakers and Reclosers	2014 Goal = 0 external inspections and maintenance; 2014 Goal = 0 internal inspections and maintenance.
TS	D - Protection and Control	2014 Goal = 0 D - discrete relay calibrations; 2014 Goal = 0 D - functional trip tests on relay trip paths.
TS	D - Station Inspections	2014 Goal = inspect 0 distribution stations on a monthly basis.
TS	D - Transformers	2014 Goal = 0 minor external inspections and maintenance; 2014 Goal = 0 major internal inspections and maintenance.
TS	D - Voltage Regulators	Based on experience and results of previous monthly station inspections, no distribution station feeder or bus regulator maintenance was planned in 2014 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	T - Capacitor Banks	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.
TS	T - Circuit Breakers and Reclosers	2014 Goal = 0 external inspections and maintenance; 2014 Goal = 0 internal inspections and maintenance.
T	T - Line Inspections	2014 Goal = Inspect 100% of OHTCO transmission lines.
T	T - Line Maintenance	The 2014 goal is to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.
TS	T - Protection and Control	2014 Goal = 0 T - discrete relay calibrations; 2014 Goal = 0 T - functional trip tests on relay trip paths.
T	T - Right-of-Way Vegetation Control	2014 Goal = maintain 80 miles of transmission line right-of-way.
TS	T - Station Inspections	2014 Goal = inspect 12 transmission stations on a monthly basis.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	T - Transformers	2014 Goal = 0 minor external inspections and maintenance; 2014 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 2014 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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11. 4901:1-10-26 (B)(3)(f)(iv) Prevention Of Overloading Or Excessive Loading Of Facilities And Equipment Program(s)

a.	b.	c.
Transmission or Distribution ("T" or "D")	Program or plan name	Program Description
T	Transmission Planning process	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.

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	Muskingum - Wolf Creek	11/01/2013	Alleghany Power (APS) will be retiring their Mitchell and Hatfield generation by 2017. Such generation retirement with a combination of the N-1-1 contingency, noted as follows, will overload the AEP Muskingum – Wolf Creek 138 kV line to 101.07% (208.49 MVA) of its summer emergency rating of 205 MVA. We will rebuilding the Muskingum – Wolf Creek 138 kV line and removing the Wolf Creek 144/138 kV 100 MVA transformer #2 and needed upgrades.	06/01/2015	Outage of the Muskingum - Corner 138 kV circuit has been requested.	
T	East Amsterdam-Miller	09/01/2014	Due to the expected load increase at Crimm Road and Stacy Delivery Point the Miller Sw - East Amsterdam is overloaded under normal conditions up to 112% of its normal rating. To remedy the overload, the plan is to rebuild the Miller Sw to East Amsterdam 69kV circuit.	05/31/2015	Has been requested to Transmission Operations to open the breaker at Miller Sw as an operating procedure when the load increases by the 4th quarter 2014. At that time the line is expected to be in the process of been rebuild.	

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities ... Continued ...

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	East Lima Station	08/31/2011	N-1-1 overload identified in PJM's 2016 RTEP model. Convert existing station from ring bus to breaker and a half configuration. This will eliminate contingency pair and mitigate overload.	06/01/2016	None	
T	Scippo-Scioto Trail	12/12/2012	N-1-1 overload identified in PJM's 2017 RTEP model. 138 kV through path upgrades will resolve all identified overloads. Operational procedures may be required until project can be completed.	12/31/2017	Sag studies performed to verify ratings and to identify any short term solutions until main project is complete.	
T	Scioto Trail-Delaware	12/12/2012	N-1-1 overload identified in PJM's 2017 RTEP model. 138 kV through path upgrades will resolve all identified overloads. Operational procedures may be required until project can be completed.	12/31/2017	Sag studies performed to verify ratings and to identify any short term solutions until main project is complete.	
T	Southwest Lima Station	12/05/2012	N-1-1 overload identified in PJM's 2017 RTEP model. Reposition transformer #2 to a new bay location. Add two new 345 kV circuit breakers and two new 138 kV circuit breakers.	06/01/2017	None	

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities ... Continued ...

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	Bixby - West Lancaster	09/10/2009	Rebuild 19 miles of Bixby - West Lancaster 138 kV line.	05/01/2014	None	
T	Bixby - Grives Road	09/10/2009	Reconductor the Bixby - Three C - Groves, and the Bixby - Groves 138 kV double circuit lines. Reconductor the Bexley - Groves 138 kV circuit.	06/01/2015	None	
T	Howard Station	11/07/2012	Replace existing station bus work and station risers on 138 kV line going towards First Energy's Brookside Station.	06/01/2014	None	
T	Desert Road - Miller	06/01/2012	This particular section feeds two large gas processing plants and a coop delivery point and was seeing heavy loadings for system normal conditions. Hence, this project proposes to rebuild the line with a high capacity conductor.	06/01/2014	Transmission Operations has various operating procedures in place .	

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

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Deleted program name

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

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Modified program name
TS	D - Circuit Breakers and Reclosers
TS	D - Transformers
TS	T - Circuit Breakers and Reclosers
TS	T - Transformers

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15. 4901:1-10-26 (B)(3)(f)(vi) Program Added

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Added program name

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16. 4901:1-10-26 (B)(4) Service Interruptions Due To Other Entity

a.	b.	c.	d.	e.	f.	g.
Date of interruption	Time of interruption	Type of entity causing interruption	Name of entity causing the interruption	Impact on transmission or distribution ("T" or "D")	Sub/Circuit(s) interrupted	Cause(s) of interruption of service

Notes

There were no Service Interruptions due to Other Entities in 2013.

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the Matter of the Annual Report of	:	
AEP Ohio Transmission Company	:	
Pursuant to Rule 26 of the Electric	:	Case No. 14-996-EL-ESS
Service and Safety Standards, Ohio	:	
Administrative Code 4901:1-10-26	:	

**ANNUAL REPORT
OF THE AEP OHIO TRANSMISSION COMPANY COMPANY**

Pursuant to Rule 26 of the Electric Service and Safety Standards, Ohio, Administrative Code 4901:1-10-26, AEP Ohio Transmission Company ("OTC") submits the following Annual Report. The Report is attached.

We/I certify that the following Report accurately and completely reflects the Annual Report requirements pursuant to Rule 26 of the Electric Service and Safety Standards, Ohio, Administrative Code 4901:1-10-26

N/A, N/A
Responsible For Distribution Reporting

Date

Lisa Barton, Executive Vice President AEP Transmission
Responsible For Transmission Reporting

Date

**American Electric Power
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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years)

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2005-004	T	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.	Athens subtrans mission area	This is a load area of about 400 MW.	80,000,000	06/01/2011	03/01/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2005-151	T	New 765/345 kV Vassell Station with 4-750 MVA single phase transformers with a position for a switchable spare. A 345 & 138 kV station with three 345 kV lines & one 138 kV Line plus other Columbus Area 138 kV Improvements.	Central Ohio.	Transmission Grid impacting over 4,000 MW's of peak load.	186,000,000	06/01/2010	05/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2007-122	T	Enhance the reliability of the system in the Mount Vernon and Newark area by enhancing the protection system, replacing obsolete equipment and increasing the capacity of the transmission system.	Mt Vernon and Newark	This is a load area of about 200 MW.	46,000,000	06/01/2009	06/01/2015	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2007-152	T	Install the new greenfield North New Lexington 138/69 kV station to provide a new source to the Somerset area.	New Lexington Area	The Somerset area has had many operations in the last five years.	70,000,000	11/04/2013	06/01/2020	
TP-2009-120	T	Un-six-wire the Hyatt - Sawmill 138 kV circuit and install 138 kV station terminal equipment to establish two Hyatt - Sawmill 138 kV circuits including circuit breakers.	Northwest Columbus area.	Approximately 400 MW	8,000,000	04/01/2012	06/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2009-174	T	Rebuild 19 miles of 138 kV line forecasted overload by 2014.	Southwest Columbus & Lancaster	Approximately 140 MVA	12,500,000	05/01/2010	05/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2011-027	T	Install 2-345kV 63kA breaker on the Tangy (O.E.) line, upgrade the line relay and bus differential #1 upgrades. This will eliminate the existing (O.E.) line connection directly to 345kV Bus #1 and it will improve the reliability of the system in case of a line fault or a bus fault.	Western OH Marysville	Enhancing the reliability of tie lines with First Energy.	2,615,000	12/04/2012	12/31/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2011-065	T	Convert 69/12 kV station to 138 kV. Rebuild portion of existing 69 kV radial line as double circuit 138 kV and serve from Wildcat-Kenton 138 kV line. Project will improve reliability to customers served from Sardinia station.	69 kV & 138 kV system in Southern Ohio	This is a load area of about 10 MW.	12,000,000	03/01/2016	12/31/2019	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2011-070	T	Install new 69kV switch to serve SCP customer load. Customer requested service for expanded coal mining operation in Beallsville, OH.	Beallsville Area	This area has approximately 40 MW of load.	470,000	06/01/2013	04/01/2014	
TP-2011-075	T	Rebuild existing North Findlay #1 and New Liberty 34.5 kV lines to North Baltimore	Will reinforce the 138 and 69 kV systems in the Western Ohio area.	This is a load area of about 200 MW.	37,250,000	02/01/2012	12/01/2018	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2011-086	T	Rebuild the Jug - Kirk 345 kV line with a 345 & 138 kV double circuit mono pole line.	New Albany to Pataskala , Ohio.	Approximately 100 MVA	57,000,000	06/01/2011	12/01/2014	
TP-2011-134	T	Build new 138 kV switching station to help alleviate undervoltage issues in Fremont area.	Western Ohio	Approx. 20 MVA	50,000,000	06/01/2011	12/30/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-019	T	Establish Amlin Station in the Dublin Ohio industrial park area. Build a 138 kV line from Hyatt station utilizing the vacant tower position on the Hayden - Hyatt 345 kV line.	Dublin, Ohio area.	Approximately 75 MVA	19,000,000	01/01/2012	06/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-033	T	With the recent customer load increases in the Dennison-Miller-Cadiz area, some facilities are seeing loadings over their permitted ratings. The loads in question are located at Crimm Road, Adobe Switch and Jewett Switch. This particular section feeds two large gas processing plants and a coop delivery point and was	Harrison County	The load in the area is approximately in the 100MW and with the possibility of increasing rapidly due to shale gas activity	17,000,000	03/01/2013	06/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
		seeing heavy loadings for system normal conditions. Hence, this project proposes to rebuild the line with a high capacity conductor.						
TP-2012-063	T	Replace existing 138 kV GOAB switches at North Zanesville and Powelson with 138 kV MOAB switches and circuit breakers.	Zanesville Area	This improvement will increase the reliability for 65 MW comprised in this circuit.	3,130,000	03/15/2012	06/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-104	T	Install SCADA control on targeted equipment for improved reliability. Upgrade strategic protective 138 and 69 kV devices.	This project will have a positive reliability impact on the 138, 69, and 12 kV systems in the south central Ohio area.	This area of the system is remote from any staffed locations and could greatly benefit from switching devices being operated remotely.	10,000,000	03/01/2014	12/31/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-111	T	AEP and ATSI 2015 Generation retirements flagged overloads in the Coshocton area and vicinity for which system improvements need to be implemented to alleviate such.	Coshocton Area and vicinity	AEP and FE generation retirements from environmental regulations will cause transmission system overloads in the area.	15,000,000	11/01/2012	12/31/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-118	T	AEP and ATSI 2015 Generation retirements flagged overloads in the Southeastern Ohio area for which system improvements need to be implemented to alleviate such.	Southeastern Ohio area	AEP and FE generation retirements from environmental regulations will cause transmission system overloads in the area.	200,000,000	11/01/2012	12/31/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-125	T	Multiple sag studies that will increase the rating on multiple circuits. Reconductor Kammer-West Bellaire 345kV Circuit with higher capacity conductor.	This project will impact multiple lines in the Eastern Ohio area.	The affected lines do not have enough capacity due to sag limitations or are undersized.	30,000,000	06/01/2012	06/01/2015	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2012-132	T	138kV CB at Saint Clair Ave Station was identified by PJM as an overdutied breaker and needs to be replaced no later than 06/2015. Additional breaker replacements were targeted in the list & it was determined to upgrade all the identified breakers & relays with this project to improve	Columbus and North Central Columbus Area, Franklin County	Approx load in the area is 500 MVA	6,000,000	12/07/2012	12/19/2016	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
		equipment conditions & system reliability with the newer units.						
TP-2013-024	T	Install new 138kV station to serve customer load. Customer requested service for a new compression facility located in Amsterdam. This will be an interconnection with FE.	Amsterdam Ohio Area	The Amsterdam area is scarce of AEP 138kV sources; the interconnection with FE will help AEP serve this load.	1,500,000	02/01/2014	09/01/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2013-092	T	Install new 69kV station to serve customer load. Customer requested service for a new compression facility located in Scio,OH.	Scio Area	The Dennison-Miller SW 69kV line will have approximately 100 MW of load in the short term.	43,000,000	06/01/2013	03/01/2014	
TP-2013-134	T	Enhance the reliability in the Pomeroy area. Install 69 kV circuit breakers and install a 69 kV loop.	Pomeroy Area	Project will allow AEP Ohio to retire deteriorated 34/12 and 34/4 kV Pomeroy Station, and migrate load to 69/12 kV Hemlock Station.	6,000,000	09/15/2013	12/15/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2013-137	T	With the recent customer load increases in the Dennison-Miller-Cadiz area, some facilities are seeing loadings over their permitted ratings. The loads in question are located at Crimm Road, Adobe Switch and Jewett Switch. The manner in which power flows allows the East Amsterdam source to pick up more than it	Amsterdam, OH Harrison & Jefferson Counties	The load in the area is approximately in the 150MW and with the possibility of increasing rapidly due to shale gas activity	13,000,000	12/13/2013	05/31/2015	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
		should and thus overloading the East Amsterdam-Miller SW 69kV circuit part of the Dillonvale - Amsterdam 69kV line. It is currently seeing roughly 53 MVA and its rating is only 35 MVA and thus creating an overload of 112% of its rating. The East Amsterdam-Miller SW 69kV circuit was built in 1918 on wood poles and 1/0 Copper conductor.						

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2013-149	T	Create 69 kV loop between Trabue - Battelle - Blair and Galloway. Convert Battelle service from 40 kV to 69 kV	Southeast Columbus area, near West Jefferson	Approximately 25 MVA	10,000,000	01/01/2014	12/01/2015	
TP-2013-163	T	Install new 69kV station to serve customer load. Customer requested service for a new compression facility located in Pekin, OH.	Pekin Area	The Pekin-Hamm ondsville line has approximately 30 MW of load to serve.	12,000,000	03/01/2013	12/31/2014	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2013-170	T	Rebuild the Muskingum - Wolf Creek section of the Muskingum - Corner 138 kV circuit to address the thermal violations caused by Alleghany Generation retirements.	Muskingum Area	Eliminates overloads on the Muskingum - Wolf Creek section of the Muskingum - Corner 138 kV circuit caused by the APS generation retirements.	10,000,000	11/27/2013	06/01/2015	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...

Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2013-197	T	Install new 345kV 3 breaker ring bus station to connect 500 MW gas fueled generation plant by tapping the Tidd-Canton Central 345kV line. Developer requested interconnection with AEP through PJM.	Carrollton Area	The proposed 500 MW of generation will help support the Canton area.	50,000,000	12/31/2014	08/30/2017	

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1. 4901:1-10-26 (B)(1) Future Investment Plan For Facilities And Equipment (covering period of no less than three years) ...
Continued ...

a.	b.	c.	d.	e.	f.	g.	h.	i.
Identification of project/program or plan by facility, equipment, or project name	Transmission or distribution ("T" or "D")	Description of project/program and goals of planned investment	Portion of service territory effected	Characteristics of territory effected	Estimated cost for implementation	Date of initiation of program or project	Planned completion date	Actual completion date
TP-2014-020	T	Construct switching station interconnecting with several FE Lines to reinforce shale development areas.	Eastern Ohio in and around Harrison County.	Prevents overloads; this area is experiencing very rapid shale development	20,000,000	09/01/2014	12/01/2017	

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1.a. 4901:1-10-26 (B)(1)(a) Relevant Characteristics Of The Service Territory

Facility Type	Total Overhead Miles	Total Underground Miles	Other Notable Characteristics
T	47	0	0
D	0	0	

Notes

There are no Distribution Facilities to report.

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1.b 4901:1-10-26 (B)(1b) Future investment plan for facilities and equipment (covering period 2013 to 2017)

All Cost	2013		2014	2015	2016	2017
	Planned	Actual	Planned	Projected	Projected	Projected
D	\$0	\$0	\$0	\$0	\$0	\$0
T	\$108,012,000	\$133,013,000	\$73,330,000	\$44,035,000	\$117,013,000	\$163,913,000

Notes

There are no future investment plan for Distribution facilities and equipment associated with the AEP Ohio Transmission Company.

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2. 4901:1-10-26 (B)(1)(d)&(f) Complaints From Other Entities

a.	b.	c.	d.	e.	f.	g.
Complaint(s) from other electric utility companies, regional transmission entity, or competitive retail electric supplier(s) (list individually)	Date complaint received	Nature of complaint	Action taken to address complaint	Complaint resolved (Yes or No)	Date resolved	If unresolved give explanation why

Notes

There were no Complaints From Other Entities to report in 2013.

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3.a. 4901:1-10-26 (B)(1)(e) Electric Reliability Organization Reliability Standards Violation

Standard number violated	Standard name violated	Date of violation	Violation risk factor	Violation severity factor	Total amount of penalty dollars	Description

Notes

There were no Electric Reliability Organization Reliability Standards Violations to report for 2013.

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

Name of RTO violation	Description

Notes

There were no Regional Transmission Organization (RTO) Violations to report for 2013.

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

TLR Event Start	TLR Event End	Highest TLR level during event	Firm load interrupted	Amount of load (MW) interrupted	Description

Notes

There were no Transmission Load Relief (TLRs) to report for 2013.

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3.d. 4901:1-10-26 (B)(1)(e) Top Ten Congestion Facilities By Hours Of Congestion

Rank	Description of facility causing congestion

Notes

There were no congested facilities to report for 2013.

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

Relationship between annual system improvement plan and RTO transmission expansion plan
<p>The transmission planning process for the AEP Ohio Transmission Company is performed by the AEP Service Corporation and PJM, the Regional Transmission Organization (RTO) that has functional control of the AEP Ohio Transmission Company transmission 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, transmission projects are identified and approved for inclusion in the annual PJM Regional Transmission Expansion Plan (RTEP).</p>

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2005-059	T	06/30/2015		Changed completion date.	Internal funding delay.
TP-2006-107	T	12/01/2017		Changed completion date.	Further scoping details and scheduling indicate delays.
TP-2007-020	T	12/01/2018		Project in-service date has been delayed.	The project is delayed because of funding constraints.
TP-2007-153	T	06/01/2014		Changed completion date.	Construction delays.
TP-2008-081	T	12/01/2014		Changed completion date.	Project completion date changed due to a delay at another station.
TP-2009-134	T	12/31/2014		This project may no longer be completed.	Pending feedback from customer. They may be served from First Energy and no longer have AEP service.

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period ... Continued ...

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2009-172	T	06/01/2015		Project in-service date has been delayed.	Project work was staggered to get necessary outages.
TP-2010-110	T	12/31/2015		Cost changed	Revised estimates
TP-2010-143	T	12/01/2018		Project in-service date has been delayed.	The need for Cole Station has been delayed.
TP-2010-150	T	06/01/2013	10/19/2012	Changed completion date.	Project Complete.
TP-2011-039	T	06/01/2021		Deferred project pending further development.	Available space limits improvement options so additional planning and development is required.
TP-2011-075	T	12/01/2018		Changed completion date.	Further scoping details and scheduling indicate delays.
TP-2012-161	T	04/01/2016		Changed planned completion date.	Land acquisition delays.

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4. 4901:1-10-26 (B)(2) Report Of Implementation Plan From Previous Reporting Period ... Continued ...

a.	b.	c.	d.	e.	f.
Identification of previously planned action	Transmission or Distribution ("T" or "D")	Planned completion date	Actual completion date of action	Identification of deviation(s) from goals of previous plan	Reason(s) for each identified deviation
TP-2013-009	T	12/31/2017		Changed dates.	PJM approval obtained. Project under development.

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5. 4901:1-10-26 (B)(3)(a) Characterization Of Condition Of Company's System

	a.	b.
Type of System	Qualitative characterization of condition or system	Explanation of criteria used in making assessment for each characterization
T	<p>The initial construction of overhead and underground facilities follows AEPs material and construction standards that incorporate National Electric Safety Code requirements. These standards were adopted to safely and reliably operate AEPs 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. Industry research and AEPs experience and expertise in the construction, operation and maintenance of transmission and distribution systems in varied geographic and demographic areas are applied to manage and maintain AEPs assets. AEP develops objectives and plans to achieve optimal performance in a safe and reliable manner over the expected life of asset, while at the same time balancing costs and benefits. An example of this type of planning can be demonstrated in AEPs annual operation and maintenance plans.</p>	<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. 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>

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5. 4901:1-10-26 (B)(3)(a) Characterization Of Condition Of Company's System ... Continued ...

	a.	b.
Type of System	Qualitative characterization of condition or system	Explanation of criteria used in making assessment for each characterization
D	N/A	N/A

Notes

There is no Characterization Of Condition Of Company's System for Distribution. AEP Ohio Transmission Company is a Transmission only company.

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6. 4901:1-10-26 (B)(3)(b) Safety and Reliability Complaints

	a.
Type of system	Total number of safety & reliability complaints received directly from customers
T	0

Notes

There were no Safety and Reliability Complaints to report in 2013.

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6.a. 4901:1-10-26 (B)(3)(b) Safety and Reliability Complaints Detailed Report

	1.	2.	3.	4.	5.	6.	7.
Type of system	Availability of service	Damage	Momentary interruption	Out of service	Quality of utility product	Repair service	Public safety
T	0	0	0	0	0	0	0

Notes

There were no Safety and Reliability Complaints to report in 2013.

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7.a. 4901:1-10-26 (B)(3)(c) Transmission Capital Expenditures - Reliability Specific

Total transmission Investment = \$546,738,447

Account \ SubAccount	2013 budget	Budget as percent of investment	2013 actual	Actual as percent of investment	2014 budget	Current as percent of investment	Explanation of variance if over 10%
Construction Transmission FERC ACCOUNTS 107	108,012,000	19.76%	133,013,000	24.33%	73,330,000	13.41%	Variance due to timing of spend to meet 2014 in service date requirements.

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7.b. 4901:1-10-26 (B)(3)(c) Transmission Maintenance Expenditures - Reliability Specific

Total transmission investment = \$546,738,447

Account \ SubAccount	2013 Budget	Budget as percent of investment	2013 Actual	Actual as percent of investment	2014 Budget	Current as percent of investment	Explanation of variance if over 10%
Electric Transmission Operations FERC ACCOUNTS 560 through 567	4,043,000	0.74%	585,000	0.11%	2,987,000	0.55%	Lower operational cost and outside services.
Electric Transmission Maintenance FERC ACCOUNTS 568 through 573	149,000	0.03%	69,000	0.01%	215,000	0.04%	No explanation required. Variance less than +/- 10%

Notes

Transmission dollars have been rounded to the nearest 000's.

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8.a. 4901:1-10-26 (B)(3)(d) Distribution Capital Expenditures - Reliability Specific

Total distribution investment =

Account \ SubAccount	Budget	Budget as percent of investment	Actual	Actual as percent of investment	Budget	Current as percent of investment	Explanation of variance if over 10%
		0.00%		0.00%		0.00%	

Notes

There were no Distribution Capital Expenditures.

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8.b. 4901:1-10-26 (B)(3)(d) Distribution Maintenance Expenditures - Reliability Specific

Total distribution investment =

Account \ SubAccount	Budget	Budget as percent of investment	Actual	Actual as percent of investment	Budget	Current as percent of investment	Explanation of variance if over 10%
		0.00%		0.00%		0.00%	

Notes

There were no Distribution Maintenance Expenditures.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
D			0	0.00	0	0.00%	
T	OH Cond. & Devices	356	80	5.00	75	93.75%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Poles & Fixtures	355	57	12.00	45	78.95%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.
T	Station Equipment	353	50	0.00	50	100.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Structures & Improvements	352	75	8.00	67	89.33%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.
T	Underground Conductor	358	60	13.00	47	78.33%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

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9. 4901:1-10-26 (B)(3)(e) Average Remaining Depreciation Life Of Distribution And Transmission Facilities ... Continued ...

a.	b.	c.	d.	e.	f.	g.	h.
Transmission or distribution ("T" or "D")	Asset Type	Asset's assigned FERC subaccount (account/sub account)	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of average remaining depreciation life of asset	Depreciation of how age was determined
T	Underground Conduit	357	55	0.00	55	100.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base times the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337.

Notes

Note (1): Transmission assets noted above do not include Accounts 350, 359, and 359.1. Accounts 350 - Land and Land Rights, 359 - Roads and Trails, and 359.1 - Asset Retirement Costs for Transmission Plant represent non-depreciable assets.

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10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation Programs Summary Report

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	The maintenance performed on capacitor banks during 2013 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.

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	External inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Internal inspections & maintenance: 2012 Goal = 0; 2012 Results = 0 (100% of goal achieved);

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	D-Calibrations on discrete relays: 2013 Goal = 0 2013 Results = 0 (100% of goal achieved); D-Functional trip tests on relay trip paths: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved);

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	2013 Goal = inspect 0 D-stations on a monthly basis; 2013 Results = inspected 0 D-stations on a monthly basis. (100% of goal achieved since one station was retired.).

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	Minor external inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Major internal inspections & maintenance: 2013 Goal = 0; 2013 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.

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**10. 4901:1-10-26 (B)(3)(f)(i) & (ii) Inspection, Maintenance, Repair And Replacement Distribution, Transmission And Substation
Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
TS	D - 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.	Y	The maintenance performed on voltage regulators during 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	The maintenance performed on capacitor banks during 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	External inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Internal inspections & maintenance: 2013 Goal = 0 2013 Results = 0 (100% of goal 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.	Y	2013 Goal = inspect 116 T-line miles; 2013 Results = 100% of transmission lines inspected.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	OHTCO remedied 0 identified T-line problems in 2013. No problems were identified during inspections in 2013.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	T-Calibrations on discrete relays: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); T-Functional trip tests on relay trip paths: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved)

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	2013 Goal = maintain 25 miles of T-line right-of-way; 2013 Results = maintained 148.9 miles. (600% of goal achieved)
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.	Y	2013 Goal = inspect 0 T-stations on a monthly basis; 2013 Results = inspected 10 T-stations on a monthly basis. (More than 100% of goal achieved).

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	Minor external inspections & maintenance: 2013 Goal = 0; 2013 Results = 0 (100% of goal achieved); Major internal inspections & maintenance: 2013 Goal = 0; 2013 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.

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Programs Summary Report ... Continued ...**

a.	b.	c.	d.	e.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals	Achieve ("Y" or "N")	Summary of findings
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.	Y	The maintenance performed on voltage regulators during 2013 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.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Capacitor Banks</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the capacitor bank.</p>	<p>Maintenance was performed, as necessary, on distribution station capacitor banks as identified during monthly station inspections and periodic infrared inspections.</p>	<p>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.</p>	<p>The maintenance performed on capacitor banks 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</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				available and the work could be performed.
<p>D - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	<p>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.</p>	<p>The 2013 goals for distribution circuit breaker and reclosure inspection and maintenance were achieved.</p>	<p>2013 Goal = 0 external inspections & maintenance; 2013 Goal = 0 internal inspections & maintenance.</p>	<p>2013 Results = 0 external inspections & maintenance. (100% of goal achieved); 2013 Results = 0 internal inspections & maintenance. (100% of goal achieved)</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Protection and Control</p> <p>GOAL - 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</p>	<p>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.</p>	<p>The 2013 goals for distribution station discrete relay calibrations and trip path functional tests were achieved and exceeded.</p>	<p>2013 Goal = 0 D - discrete relay calibrations 2013 Goal = 0 D - functional trip tests on relay trip paths.</p>	<p>2013 Results = 0 calibrations on discrete relays. (100% of goal achieved) 2013 Results = 0 functional trip tests on relay trip paths. (100% of goal achieved)</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
customer outages minimize maintenance call-outs and maximize the life of station equipment.				
D - Station Inspections GOAL - 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.	Each distribution station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.	The 2013 goal for distribution station inspections on a monthly basis was achieved.	2013 Goal = inspect 0 D-stations on a monthly basis.	2013 Results = inspected 0 D-stations on a monthly basis. (100% of goal achieved since one station was retired.).

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Transformers</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the transformers.</p>	<p>The 2013 goals for distribution station transformer inspections and maintenance were achieved.</p>	<p>2013 Goal = 0 minor external inspections & maintenance and 0 major internal inspections & maintenance.</p>	<p>2013 Results = 0 minor external inspections & maintenance. (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. 0 major internal inspection was completed in</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				2013. (100% of goal achieved).

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>D - Voltage Regulators</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the voltage regulators.</p>	<p>Maintenance was performed, as necessary, on distribution station feeder regulators and/or bus regulators as identified during monthly station inspections.</p>	<p>Based on experience and results of previous monthly station inspections, no distribution station feeder or bus regulator maintenance was planned in 2013 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored</p>	<p>The maintenance performed on voltage regulators 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				time or subsequently scheduled for repair or replacement of the voltage regulator.

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Capacitor Banks</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the capacitor bank.</p>	<p>Maintenance was performed, as necessary, on transmission station capacitor banks as identified during monthly station inspections and periodic infrared inspections.</p>	<p>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.</p>	<p>The maintenance performed on capacitor banks 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</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				available and the work could be performed.
<p>T - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	<p>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.</p>	<p>The 2013 goals for transmission circuit breaker and recloser inspection and maintenance were achieved and exceeded.</p>	<p>2013 Goal = 0 external inspections & maintenance 2013 Goal = 0 internal inspections & maintenance.</p>	<p>2013 Results = 0 external inspections & maintenance (100% of goal achieved) 2013 Results = 0 internal inspections & maintenance (100% of goal achieved).</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Line Inspections</p> <p>GOAL - 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.</p>	<p>OHTCO has a total of 58 miles of transmission lines ranging from 69 kV to 138 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.</p>	<p>2013 goal for transmission line inspections was achieved.</p>	<p>2013 Goal = Inspect 116 T-line miles.</p>	<p>2013 Results = 100% of OHTCO transmission lines inspected.</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Line Maintenance</p> <p>GOAL - 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.</p>	<p>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</p>	<p>2013 maintenance was scheduled and performed, as necessary, on transmission lines issues that were identified during inspections.</p>	<p>The 2013 goal was to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.</p>	<p>The number of identified problems remedied in OHTCO during 2013 is 0. No problems were identified during inspections in 2013.</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
	program.			

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Protection and Control</p> <p>GOAL - 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</p>	<p>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.</p>	<p>The 2013 goals for transmission station discrete relay calibrations and trip path functional tests were achieved.</p>	<p>2013 Goal = 0 T - discrete relay calibrations; 2013 Goal = 0 T - functional trip tests on relay trip paths.</p>	<p>2013 Results = 0 calibrations on discrete relays. (100% of goal achieved); 2013 Results = 0 functional trip tests on relay trip paths. (100% of goal achieved).</p>

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
customer outages; minimize maintenance call-outs and maximize the life of station equipment.				
T - Right-of-Way Vegetation Control GOAL - 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.	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.	The 2013 goal for transmission line right-of-way vegetation control was achieved and exceeded.	2013 Goal = maintain 25 miles of T-line right-of-way.	2013 Results = maintained 148.9 miles. (600% of goal achieved)

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1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Station Inspections</p> <p>GOAL - 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.</p>	<p>Each transmission station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.</p>	<p>The 2013 goal for transmission station inspections on a monthly basis was achieved.</p>	<p>2013 Goal = inspect 0 T-stations on a monthly basis.</p>	<p>2013 Results = inspected 10T-stations on a monthly basis. (More than 100% of goal achieved).</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Transformers</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the transformers.</p>	<p>The 2013 goal for transmission transformer inspection and maintenance were achieved.</p>	<p>2013 Goal = 0 minor external inspections & maintenance and 0 major internal inspection & maintenance .</p>	<p>2013 Results = 0 minor external inspections & maintenance. (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. 0 major internal inspection was completed in</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				2013. (100% of goal achieved).

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
<p>T - Voltage Regulators</p> <p>GOAL - 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.</p>	<p>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 assure the integrity of these components and the overall performance of the voltage regulators.</p>	<p>Maintenance was performed, as necessary, on transmission station feeder regulators and/or bus regulators as identified during monthly station inspections.</p>	<p>Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2013 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored</p>	<p>The maintenance performed on voltage regulators 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</p>

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10.a. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "d" Of Report 10 Is "Yes" ... Continued ...

1.	2.	3.	4.	5.
Program name	Explanation of how goal were achieved	Description of extent of achievement	Quantitative description of goal in either numerical values or percentages	Quantitative description of actual performance in either numerical values or percentages
				time or subsequently scheduled for repair or replacement of the voltage regulator.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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10b. 4901:1-10-26 (B)(3)(f)(i) If Response In Column "D" Of Report 10 Is "No"

1.	2.	3.	4.	5.
Program name	Cause(s) for not achieving goal(s)	Description of level of completion of goal	Quantitative description of goal in either numerical values or percentages	Quantitative description of level of completion of goal in either numerical values or percentages

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Capacitor Banks</p> <p>GOAL - 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.</p>	TS	<p>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</p>	<p>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</p>	12/31/2013	None required.	

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

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		the condition is identified.	are made shortly after the condition is identified.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	TS	Of the maintenance performed on substation circuit breakers and reclosers during 2012, 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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			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			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the internal inspection.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Protection and Control</p> <p>GOAL - 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</p>	TS	<p>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</p>	<p>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.</p>	12/31/2013	<p>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.</p>	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
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.		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.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Station Inspections</p> <p>GOAL - 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.</p>	TS	<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</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>	12/31/2013	None required.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		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				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		inspect the yards, structures and equipment for broken insulators, bird nests and other yard debris.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Transformers</p> <p>GOAL - 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</p>	TS	Of the maintenance performed on substation transformers during 2012, 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 Load Tap Changer (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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
achieve optimum loading of all transformers.			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			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the normal course of business.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>D - Voltage Regulators</p> <p>GOAL - 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.</p>	TS	<p>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.</p>	<p>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.</p>	12/31/2013	None required.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Capacitor Banks</p> <p>GOAL - 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.</p>	TS	<p>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</p>	<p>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</p>	12/31/2013	None required.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		the condition is identified.	are made shortly after the condition is identified.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Circuit Breakers and Reclosers</p> <p>GOAL - 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.</p>	TS	Of the maintenance performed on substation circuit breakers and reclosers during 2012, 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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			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			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the internal inspection.			

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Line Inspections</p> <p>GOAL - 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.</p>	T	<p>A major portion of the conditions found involved structural components such as poles, crossarms, 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</p>	<p>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</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		other things, missing structure numbering signs, damaged FAA markings and foreign attachments.	during restoration efforts following major storm activity.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Line Maintenance</p> <p>GOAL - 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.</p>	T	<p>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</p>	<p>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.</p>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		a timely, but less critical manner.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Protection and Control</p> <p>GOAL - 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</p>	TS	<p>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</p>	<p>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.</p>	12/31/2013	<p>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.</p>	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
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.		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.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Right-of-Way Vegetation Control</p> <p>GOAL - 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.</p>	T					

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10.c. 4901:1-10-26 (B)(3)(f)(iii) Remedial Activity ... Continued ...

1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Station Inspections</p> <p>GOAL - 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.</p>	TS	<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</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>	12/31/2013	None required.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		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				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
		inspect the yards, structures and equipment for broken insulators, bird nests and other yard debris.				

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Transformers</p> <p>GOAL - 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</p>	TS	Of the maintenance performed on substation transformers during 2012, 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 Load Tap Changer (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	12/31/2013	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 Integrated Station Inspection System (ISIS) Database.	

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
achieve optimum loading of all transformers.			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			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
			high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the normal course of business.			

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1.	2.	3.	4.	5.	6.	7.
Program name	Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program finding(s) causing remedial activity	Remedial activity performed	Actual completion date	Remedial activity yet to be performed	Estimated completion date
<p>T - Voltage Regulators</p> <p>GOAL - 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.</p>	TS	<p>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.</p>	<p>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.</p>	12/31/2013	None required.	

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Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	D - Capacitor Banks	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.
TS	D - Circuit Breakers and Reclosers	2014 Goal = 0 external inspections and maintenance; 2014 Goal = 0 internal inspections and maintenance.
TS	D - Protection and Control	2014 Goal = 0 D - discrete relay calibrations; 2014 Goal = 0 D - functional trip tests on relay trip paths.
TS	D - Station Inspections	2014 Goal = inspect 0 distribution stations on a monthly basis.
TS	D - Transformers	2014 Goal = 0 minor external inspections and maintenance; 2014 Goal = 0 major internal inspections and maintenance.
TS	D - Voltage Regulators	Based on experience and results of previous monthly station inspections, no distribution station feeder or bus regulator maintenance was planned in 2014 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	T - Capacitor Banks	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.
TS	T - Circuit Breakers and Reclosers	2014 Goal = 0 external inspections and maintenance; 2014 Goal = 0 internal inspections and maintenance.
T	T - Line Inspections	2014 Goal = Inspect 100% of OHTCO transmission lines.
T	T - Line Maintenance	The 2014 goal is to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.
TS	T - Protection and Control	2014 Goal = 0 T - discrete relay calibrations; 2014 Goal = 0 T - functional trip tests on relay trip paths.
T	T - Right-of-Way Vegetation Control	2014 Goal = maintain 80 miles of transmission line right-of-way.
TS	T - Station Inspections	2014 Goal = inspect 12 transmission stations on a monthly basis.

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

1.	2.	3.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Program name	Program goals
TS	T - Transformers	2014 Goal = 0 minor external inspections and maintenance; 2014 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 2014 for OHTCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.

Notes

There are no Distribution assets associated with AEP Ohio Transmission Company.

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11. 4901:1-10-26 (B)(3)(f)(iv) Prevention Of Overloading Or Excessive Loading Of Facilities And Equipment Program(s)

a.	b.	c.
Transmission or Distribution ("T" or "D")	Program or plan name	Program Description
T	Transmission Planning process	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.

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	Muskingum - Wolf Creek	11/01/2013	Alleghany Power (APS) will be retiring their Mitchell and Hatfield generation by 2017. Such generation retirement with a combination of the N-1-1 contingency, noted as follows, will overload the AEP Muskingum – Wolf Creek 138 kV line to 101.07% (208.49 MVA) of its summer emergency rating of 205 MVA. We will rebuilding the Muskingum – Wolf Creek 138 kV line and removing the Wolf Creek 144/138 kV 100 MVA transformer #2 and needed upgrades.	06/01/2015	Outage of the Muskingum - Corner 138 kV circuit has been requested.	
T	East Amsterdam-Miller	09/01/2014	Due to the expected load increase at Crimm Road and Stacy Delivery Point the Miller Sw - East Amsterdam is overloaded under normal conditions up to 112% of its normal rating. To remedy the overload, the plan is to rebuild the Miller Sw to East Amsterdam 69kV circuit.	05/31/2015	Has been requested to Transmission Operations to open the breaker at Miller Sw as an operating procedure when the load increases by the 4th quarter 2014. At that time the line is expected to be in the process of been rebuild.	

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities ... Continued ...

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	East Lima Station	08/31/2011	N-1-1 overload identified in PJM's 2016 RTEP model. Convert existing station from ring bus to breaker and a half configuration. This will eliminate contingency pair and mitigate overload.	06/01/2016	None	
T	Scippo-Scioto Trail	12/12/2012	N-1-1 overload identified in PJM's 2017 RTEP model. 138 kV through path upgrades will resolve all identified overloads. Operational procedures may be required until project can be completed.	12/31/2017	Sag studies performed to verify ratings and to identify any short term solutions until main project is complete.	
T	Scioto Trail-Delaware	12/12/2012	N-1-1 overload identified in PJM's 2017 RTEP model. 138 kV through path upgrades will resolve all identified overloads. Operational procedures may be required until project can be completed.	12/31/2017	Sag studies performed to verify ratings and to identify any short term solutions until main project is complete.	
T	Southwest Lima Station	12/05/2012	N-1-1 overload identified in PJM's 2017 RTEP model. Reposition transformer #2 to a new bay location. Add two new 345 kV circuit breakers and two new 138 kV circuit breakers.	06/01/2017	None	

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12. 4901:1-10-26 (B)(3)(f)(v) Actions To Remedy Overloading Or Excessive Loading Of Equipment And Facilities ... Continued ...

Program Name = Transmission Planning process

a.	b.	c.	d.	e.	f.	g.
Transmission or distribution ("T" or "D")	Sub/Circuit name	Date overloading identified	Plans to remedy overloading	Estimated completion date	Action(s) already taken to remedy overloading	Actual completion date
T	Bixby - West Lancaster	09/10/2009	Rebuild 19 miles of Bixby - West Lancaster 138 kV line.	05/01/2014	None	
T	Bixby - Grives Road	09/10/2009	Reconductor the Bixby - Three C - Groves, and the Bixby - Groves 138 kV double circuit lines. Reconductor the Bexley - Groves 138 kV circuit.	06/01/2015	None	
T	Howard Station	11/07/2012	Replace existing station bus work and station risers on 138 kV line going towards First Energy's Brookside Station.	06/01/2014	None	
T	Desert Road - Miller	06/01/2012	This particular section feeds two large gas processing plants and a coop delivery point and was seeing heavy loadings for system normal conditions. Hence, this project proposes to rebuild the line with a high capacity conductor.	06/01/2014	Transmission Operations has various operating procedures in place .	

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

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Deleted program name

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

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Modified program name
TS	D - Circuit Breakers and Reclosers
TS	D - Transformers
TS	T - Circuit Breakers and Reclosers
TS	T - Transformers

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15. 4901:1-10-26 (B)(3)(f)(vi) Program Added

a.	b.
Transmission "T", distribution "D", transmission substation "TS", or distribution substation "DS"	Added program name

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16. 4901:1-10-26 (B)(4) Service Interruptions Due To Other Entity

a.	b.	c.	d.	e.	f.	g.
Date of interruption	Time of interruption	Type of entity causing interruption	Name of entity causing the interruption	Impact on transmission or distribution ("T" or "D")	Sub/Circuit(s) interrupted	Cause(s) of interruption of service

Notes

There were no Service Interruptions due to Other Entities in 2013.

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Case No(s). 14-0996-EL-ESS

Summary: Report -Annual Report of AEP Ohio Transmission Co. Pursuant to Rule 26 of the Electric Service and Safety Standards. electronically filed by Mr. Matthew J Satterwhite on behalf of AEP Ohio Transmission Company