

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of the)	
Electric Service and Safety Standards,)	Case No: 22 - 996 -EL-ESS
Pursuant to Rule 4901:1-10-26(B) of the Ohio)	
Administrative Code)	

ANNUAL REPORT OF
AEP Ohio Transmission Company, Inc.
submitted for the year 2021 .

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

Robert Bradish

Signature

Robert W. Bradish

Printed Name

SVP Regulated Infrastructure and Investment Planning

Title

03/30/2022

Date

AEP Ohio Transmission Company, Inc.

Rule 26 Report for 2021

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP2020011, s2637	Transmission	Construct ~ 8 miles of new 69 kV line between Tiffin Center and the new Kilbourne Switch delivery point using 556 ACSR conductor. Construct ~ 0.83 miles of new 69 kV double circuit line between structure 103 on the Carrothers-Greenlawn circuit to the new Founders delivery point using 556 ACSR conductor. To establish a new 69kV connection between Republic station and Tiffin Center.	Seneca County, Ohio	Rural	\$14.39M	9/17/2021	1/20/2026

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP2020224 s2651	Transmission	Rebuild 9.0 miles of aging 138kV transmission lines and perform relay upgrades in the Canton, Ohio area to address equipment material condition, performance, and risk needs. The Philo-Torrey 138kV line asset between South Canton and Torrey will be rebuilt (3.5 miles), along with the Philo-Canton 138kV line asset between South Canton and Sunnyside (5.5 miles).	Canton, Ohio	Urban	\$22.71M	10/15/2021	6/9/2025

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
DP20C0002, s2401	Transmission and Distribution	Install a 3 - 3000A Breaker 69kV ring bus called Grace station to serve the requested delivery point & Install approximately 0.2 miles of 69kV line to tie the greenfield Grace station in-and-out to the Muskingum River – South Rokeby 69kV circuit. To address documented poor reliability in the Pennsville and Stockport, Ohio areas.	Morgan County, Ohio	Rural	\$4.4M	10/16/2020	1/23/2024
TP2018150, s2426	Transmission and Distribution	Construct 22 miles of new 69 kV line connecting the Rarden and Rosemount stations. The new 69kV line will supply five distribution substations: Rarden, Rosemount, McDermott, Otway and Adams Coop's Tick Ridge Substation. To address poor reliability on the 34kV distribution network between Adams and Portsmouth.	Adams & Scioto Counties, Ohio	Rural	\$61.9M	11/20/2020	10/31/2025

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Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP2020004, s2465	Transmission	Both the Philo - Torrey and Philo - Canton lines have equipment material/condition/performance issues to alleviate these issues. The Philo-Newcomerstown project will combine the two lines into one double-circuit transmission line, with approximately 4.5 miles of greenfield construction required. In addition, four 138kV hard taps will be replaced with 138kV phase-over-phase switches.	Muskingum, Guernsey, & Tuscarawas Counties Ohio	Rural	\$110.42M	2/17/2021	7/30/2026
TP2020249, TP2020014, TP2020250, s2524	Transmission	Rebuild from Howard to Ohio Central as 138kV double-circuit (64 miles) & rebuild from Ohio Central to Philo as 138kV single-circuit (19 miles), to address condition, performance and risk issues.	Muskingum, Coshocton, Knox, & Richland Counties Ohio	Urban/Rural	\$184.74M	5/21/2021	11/1/2026

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Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP2020024, s2525	Transmission	rebuild the approximately 2.75 mile Astor - East Broad Street 138kV circuit. to address condition, performance and risk issues.	Reynoldsburg, Ohio	Urban	\$2.58M	5/21/2021	11/8/2024
TP2020010, s2575	Transmission	Establish a new 14 mile 69kV connection between Bucyrus Center and Sycamore stations with the added benefit of providing looped service to the currently radially fed AEP Ohio East Tiffin station through line reconfigurations to the north near the existing West Rockaway switch.	Seneca County, Ohio	Rural	\$40.19M	7/2/2021	10/11/2024

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP20219119, s2577	Transmission	To address condition, performance and risk issues rebuild the entire 16.43 miles of the East Logan – South Lancaster 69 kV #1 circuit, Replace both Enterprise Switch and West Logan, upgrade metering at enterprise switch, & rebuild the 200 feet of line between Enterprise Switch and Enterprise Metering Structure.	Fairfield & Hocking Counties, Ohio	Urban/Rural	\$41.72M	7/16/2021	12/12/2024
TP2021013, b3345	Transmission	Rebuild ~4.2 miles of overloaded sections of the 69 kV line between Salf Fork Sw. and Leatherwood Sw.	Tucarawas & Guernsey Counties, Ohio	Rural	\$9.1M	8/30/2021	6/1/2025
TP2021590, b3346	Transmission	Rebuild of approximately 3.5 miles of the overloaded sections on the 69 kV lines around the Delphos area	Allen & Putnam Counties, Ohio	Rural	\$8.87M	8/30/2021	6/1/2026
TP2020168, b3359	Transmission	Rebuild from North Van Wert Switch to structure 25 (~2.3 miles) as single circuit 69kV	Van Wert County, Ohio	Rural	\$6.2M	10/15/2021	9/1/2025

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
TP20181243, b3285	Transmission	Replace the Meigs 69 kV 4/0 Cu station riser towards Gavin and rebuild the section of the Meigs – Hemlock 69 kV circuit from Meigs to approximately structure #40 (~4 miles) replacing the line conductor 4/0 ACSR with the line conductor size 556.5 ACSR.	Meigs County, Ohio	Rural	\$12.4M	12/18/2020	9/15/2024
TP2020233, b3297	Transmission	Rebuild 4.23 miles of 69 kV line between Sawmill and Lazelle station, Rebuild 1.94 miles of 69kV Line between Westerville and Genoa stations, Replace risers and switchers at Lazelle, Westerville, and Genoa stations.	Columbus, OH	Urban	\$12M	12/18/2020	6/1/2025

Notes:

AEP Ohio Transmission Company, Inc.
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1a. 4901:1-10-26(B)(1), (B)(1)(a) Relevant characteristics of the service territory

Transmission or Distribution	Overhead Miles	Underground Miles	Notable Characteristics
OHTCo	1,026	8	

Notes:

AEP Ohio Transmission Company, Inc.
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1b. 4901:1-10-26(B)(1) Future investment plan for facilities and equipment

Transmission or Distribution	2021 Planned Costs	2021 Actual Costs	2022 Planned Costs	2023 Projected Costs	2024 Projected Costs	2025 Projected Costs
Transmission	\$196,609,894	\$278,236,460	\$256,214,379	\$253,739,760	\$265,540,353	\$347,543,102

Notes:

AEP Ohio Transmission Company, Inc.
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2. 4901:1-10-26(B)(1)(d), (B)(1)(f) Complaints from other entities

Entity making complaint	Date complaint received	Nature of complaint	Action taken to address complaint	Resolved (yes/no)	Date complaint resolved	If not resolved, why?
South Central Power	1/7/2021	Outage	An error was made by the field that sent transfer trip from Freebryd to South Cadiz and Stone Plant	yes	1/7/2021	
Buckeye Rural Electric Coop	2/28/2021	Outage	Unknown at this time. Weather in area	yes	2/28/2021	
Holmes-Wayne Elec. Coop., Inc.	3/26/2021	Outage	Broken Pilot Wire at structure 142 near Shreve Station	yes	3/26/2021	
Holmes-Wayne Elec. Coop., Inc.	3/26/2021	Outage	Broken Pilot Wire at structure 142 near Shreve Station	yes	3/26/2021	
Licking Rural Electrification, Inc.	3/26/2021	Outage	Broken Pilot Wire at structure 142 near Shreve Station	yes	3/26/2021	
Adams Rural Electric Coop	4/10/2021	Outage	Tree on circuit at structure 72.	yes	4/10/2021	
Adams Rural Electric Coop.	6/18/2021	Outage	Weather - Lightning/Tstorm	yes	6/18/2021	
Holmes-Wayne Elec. Coop., Inc.	7/17/2021	Outage	Vegetation Fall-In (Outside R/W)	yes	7/17/2021	
Licking Rural Electrification, Inc.	7/17/2021	Outage	Vegetation Fall-In (Outside R/W)	yes	7/17/2021	

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

Entity making complaint	Date complaint received	Nature of complaint	Action taken to address complaint	Resolved (yes/no)	Date complaint resolved	If not resolved, why?
Holmes-Wayne Elec. Coop., Inc.	7/29/2021	Outage	Weather - Lightning/Tstorm	yes	7/29/2021	
Licking Rural Electrification, Inc.	7/29/2021	Outage	Weather - Lightning/Tstorm	yes	7/29/2021	
South Central Power	11/12/2021	Outage	Equip-Line-Static Wire	yes	11/12/2021	
Licking Rural Electrification, Inc.	12/11/2021	Outage	Customer Transmission pole down.	yes	12/11/2021	
Licking Rural Electrification, Inc.	12/11/2021	Outage	Customer Transmission pole down.	yes	12/11/2021	

Notes:

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

Standard number	Standard name	Date of violation	Risk factor	Severity factor	Penalty dollars	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
CIP-005-5 R1.	Cyber Security — Electronic Security Perimeter(s)	7/1/2016	Medium	Severe			Yes	8/27/2019	
CIP-005-5 R2.	Cyber Security — Electronic Security Perimeter(s)	7/1/2016	Medium	Severe			Yes	8/18/2017	
CIP-005-5 R2.	Cyber Security — Electronic Security Perimeter(s)	7/1/2016	Medium	Severe			Yes	7/24/2017	
CIP-005-5 R2.	Cyber Security — Electronic Security Perimeter(s)	4/4/2017	Medium	Severe			Yes	12/13/2018	
CIP-007-3a R6.	Cyber Security - Systems Security Management	3/6/2016	Lower	Severe			Yes	6/4/2018	
CIP-007-6 R2.	Cyber Security - Systems Security Management	7/1/2016	Medium	Severe			Yes	6/19/2019	
CIP-007-6 R4.	Cyber Security - Systems Security Management	7/1/2016	Medium	Severe			Yes	2/7/2018	
CIP-007-6 R4.	Cyber Security - Systems Security Management	3/1/2017	Medium	Severe			Yes	4/26/2018	

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

Standard number	Standard name	Date of violation	Risk factor	Severity factor	Penalty dollars	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
CIP-010-2 R1.	Cyber Security — Configuration Change Management and Vulnerability Assessments	7/1/2016	Medium	High			Yes	10/22/2018	
CIP-010-2 R2.	Cyber Security — Configuration Change Management and Vulnerability Assessments	8/5/2016	Medium	Severe			Yes	10/22/2018	

Notes:

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

Name of RTO violation	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
AEP Ohio Transmission Company did not have any RTO operating violations within Ohio commission's jurisdiction for the calendar year 2021.	N/A	N/A	N/A	N/A

Notes: N/A

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

Event Start	Event End	Highest TLR during event	Firm load interrupted during event	Amount of load (MW) interrupted	Description of event
There were no PJM/AEP TLRs- called for AEP facilities- in Ohio during 2021.	N/A	N/A	N/A	N/A	N/A

Notes: N/A

AEP Ohio Transmission Company, Inc.
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3d. 4901:1-10-26(B)(1)(e) Top ten congestion facilities by hours of congestion

Rank	Description of facility causing congestion
1	NOTTINGH230 KV 2-3
2	BERWICK 69 KV BER-KOO
3	ELIMA 138 KV ELI-HAV1
4	TMI 500 KV 1 BANK
5	GARDNERS115 KV GAR-TEX
6	Northwest Tap - Purdue 138 kV I/o Westwood - W Lafayette 138 kV
7	GRACETON230 KV GRA-SAF
8	RAMAPO 138 KV RAM-SMA
9	CEDARSUB230 KV CED-WILF
10	BRIGHTON 6AB CB 500 KV

Notes: Not in Ohio Territory

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

Relationship between annual system improvement plan and RTO transmission expansion plan

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

Notes:

AEP Ohio Transmission Company, Inc.
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4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2017-003	Transmission	5/24/2021	6/10/2021	Completed	Completed
A11012012 , A11012022, A11012015	Transmission	9/31/2021	10/28/2021	Completed	Completed
A11012332	Transmission	6/25/2024	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
DP17C0005	Transmission	4/21/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
DP18C0013	Transmission	5/21/2021	6/10/2021	Completed	Completed
DP19C0009	Transmission	3/24/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TA2016801	Transmission	5/3/2024	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP-2006-107	Transmission	4/28/2023	N/A	Planned completion date changed.	Siting challenges associated with Hopetown station.
TP-2010-142 TA-2011-012 TP-2016-106	Transmission	6/1/2023	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2011-059	Transmission	7/22/2021	8/25/2021	Completed	Completed
TP-2011-075	Transmission	4/2/2024	N/A	N/A	N/A
TP-2013-084	Transmission	10/28/2021	10/26/2021	Completed	Completed
TP-2014-079	Transmission	4/30/2021	2/28/2022	Completed	Completed
TP-2015-003	Transmission	2/25/2023	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons

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AEP Ohio Transmission Company, Inc.
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4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2015-057	Transmission	9/30/2023	N/A	N/A	N/A
TP-2015-065	Transmission	4/1/2021	6/29/2021	Completed	Completed
TP-2015-069	Transmission	4/30/2025	N/A	Project to be replaced by new Parsons 138 kV Conversion Project	Cost of original plan has increased substantially above original expectations.
TP2016081	Transmission	8/2/2021	8/2/2021	Completed	Completed
TP-2016-108	Transmission	12/1/2022	N/A	N/A	N/A
TP-2016-117	Transmission	12/14/2021	1/28/2022	Completed	Completed
TP-2016-121	Transmission	12/21/2023	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2016-126	Transmission	3/2/2020	3/6/2021	Completed	Completed
TP-2016-134	Transmission	4/29/2022	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2016-137	Transmission	6/1/2022	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP2017006	Transmission	7/8/2021	12/14/2021	Completed	Completed
TP-2017-018	Transmission	11/18/2021	1/14/2022	Completed	Completed
TP-2017-039	Transmission	11/29/2022	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2017-054	Transmission	06/01/2021	06/01/2021	Completed	Completed
TP-2017-100	Transmission	10/31/2022	12/22/2021	Completed	Completed
TP2017117	Transmission	12/1/2021	12/1/2021	Completed	Completed

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AEP Ohio Transmission Company, Inc.
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4. 4901:1-10-26(B)(2) Report of implementation plans from previous reporting periods

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2017-215	Transmission	5/17/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP-2018-009	Transmission	11/22/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2018115	Transmission	12/9/2021	2/25/2022	Completed	Completed
TP-2018-116	Transmission	5/23/2023	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP-2018-127	Transmission	6/30/2022	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2018-141	Transmission	4/19/2023	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2018-156	Transmission	6/8/2022	N/A	Planned completion date changed.	Completion date adjusted for constructability / outage reasons
TP-2018-173	Transmission	6/16/2021	7/27/2021	Completed	Completed
TP2018195	Transmission	12/13/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019005	Transmission	12/26/2022	N/A	N/A	N/A
TP2019006	Transmission	12/4/2024	N/A	N/A	N/A
TP-2019-007	Transmission	12/17/2022	N/A	N/A	N/A
TP-2019-009	Transmission	12/1/2021	8/30/2021	Completed	Completed
TP2019-013	Transmission	12/1/2023	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons

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

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP-2019-016	Transmission	6/1/2024	N/A	N/A	N/A
TP-2019-024	Transmission	12/30/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP-2019-024	Transmission	7/14/2023	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019082 TP2019193 TP2019194	Transmission	9/23/2025	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019103	Transmission	12/3/2024	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019105	Transmission	8/6/2024	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019120	Transmission	8/25/2023	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019122	Transmission	11/18/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019133	Transmission	11/18/2022	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019150, s2160	Transmission	10/4/2023	N/A	Completion date changed from 11/1/2023 to 10/04/2023	Completion date adjusted for constructability / outage reasons
TP2019151	Transmission	4/25/2024	N/A	Planned Completion date changed	Completion date adjusted for constructability / outage reasons
TP2019220, s2215, b3290	Transmission	11/12/2025	N/A	Completion date changed from 10/20/2025 to 11/12/2025	Completion date adjusted for constructability / outage reasons
TP2019233	Transmission	1/29/2021	7/28/2021	Completed	Completed

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Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
Tp2019225, s2224	Transmission	9/22/2025	N/A	Completion date changed from 12/30/2024 to 9/22/2025	Completion date adjusted for constructability / outage reasons
TP2019216, s2216	Transmission	12/31/2025	N/A	Completion date changed from 11/28/2024 to 12/31/2025	Completion date adjusted for constructability / outage reasons
TP2019209, s2221	Transmission	7/14/2025	N/A	Completion date changed from 8/14/2023 to 07/14/2025	Completion date adjusted for constructability / outage reasons
TP2019113, s2223	Transmission	8/27/2024	N/A	Completion date changed from 2/7/2024 to 08/27/2024	Completion date adjusted for constructability / outage reasons
TP2019104, s2272	Transmission	11/30/2027	N/A	Completion date changed from 9/16/2026 to 11/30/2027	Completion date adjusted for constructability / outage reasons
TP2019017, s2282	Transmission	11/5/2024	N/A	Completion date changed from 10/1/2024 to 11/05/2024	Completion date adjusted for constructability / outage reasons
TP2019211, s2283	Transmission	1/8/2026	N/A	Completion date changed from 5/16/2024 to 01/08/2026	Completion date adjusted for constructability / outage reasons
TP2019198, s2393	Transmission	12/2/2025	N/A	Completion date changed from 5/16/2024 to 12/02/2025	Completion date adjusted for constructability / outage reasons
TP2019143, s2395	Transmission	11/3/2025	N/A	N/A	N/A
TP2020015, s2394	Transmission	5/21/2025	N/A	Completion date changed from 05/22/2025 to 05/21/2025	Completion date adjusted for constructability / outage reasons
TP2019066, s2397	Transmission	11/28/2023	N/A	Completion date changed from 11/1/2023 to 11/28/2023	Completion date adjusted for constructability / outage reasons
TP2020017, b3273	Transmission	5/6/2026	N/A	Completion date changed from 2/10/2025 to 05/06/2026	Completion date adjusted for constructability / outage reasons

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

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TP2021013, b3274	Transmission	6/6/2025	N/A	Completion date changed from 6/1/2025 to 06/06/2025	Completion date adjusted for constructability / outage reasons
TP2020252, b3276	Transmission	9/17/2025	N/A	Completion date changed from 6/1/2025 to 09/17/2025	Completion date adjusted for constructability / outage reasons
TP2020889, b3312	Transmission	4/1/2025	N/A	Completion date changed from 6/1/2025 to 04/01/2025	Completion date adjusted for constructability / outage reasons

Notes:

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

Transmission or Distribution	Qualitative characterization of condition of system	Explanation of criteria used in making assessment for each characterization
Transmission	Please reference AEP's website for our "AEP Transmission Planning Criteria for End-Of-Life and Other Asset Management Needs": https://aep.com/requiredpostings/AEPTransmissionStudies	Please reference AEP's website for our "Transmission Planning Reliability Criteria - AEP PJM": https://aep.com/requiredpostings/AEPTransmissionStudies

Notes:

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

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

Notes: None to Report

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

Total transmission capital expenditures in 2021	\$278,236,460
Total Transmission investment as of year end	\$4,667,170,723
Transmission capital expenditures as % of total transmission investment	5.96%

Notes:

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

Total transmission maintenance expenditures in 2021	\$5,638,900
Total Transmission investment as of year end	\$4,667,170,723
Transmission maintenance expenditures as % of total transmission investment	0.12%

Notes:

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

Transmission capital budget category	2021 Budget	2021 Actual	% Variance	Explanation of variance if over 10%	2022 Budget
Construction Transmission - FERC Accounts 107	\$196,609,894	\$278,236,460	41.52%	Due to increased asset replacement and system rehabilitation	\$256,214,379

Notes:

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

Transmission maintenance budget category	2021 Budget	2021 Actual	% Variance	Explanation of variance if over 10%	2022 Budget
Electric Transmission Operations - FERC Accounts 560 through 567	\$27,857,909	\$26,536,020	-4.75%		\$32,525,888
Electric Transmission Maintenance - FERC Accounts 568 through 573	\$11,176,142	\$5,638,900	-49.55%	Variance attributed to a decrease in staion and line maintenance.	\$6,671,349

Notes:

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

Total distribution capital expenditures in 2021	
Total distribution investment as of year end	
Distribution capital expenditures as % of total distribution investment	

Notes:

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

Total distribution maintenance expenditures in 2021	
Total distribution investment as of year end	
Distribution maintenance expenditures as % of total distribution investment	

Notes:

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

Distribution capital budget category	2021 Budget	2021 Actual	% Variance	Explanation of variance if over 10%	2022 Budget
N/A				N/A	

Notes:

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

Distribution maintenance budget category	2021 Budget	2021 Actual	% Variance	Explanation of variance if over 10%	2022 Budget
N/A				N/A	

Notes:

AEP Ohio Transmission Company, Inc.
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9. 4901:1-10-26(B)(3)(e) Average remaining depreciation life of distribution and transmission facilities

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
T	Structures & Improvements	352	51.00	2.00	49.00	96.08%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
T	Station Equipment	353	41.00	4.00	37.00	90.24%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
T	Towers & Fixtures	354	44.00	2.00	42.00	95.45%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
T	Poles & Fixtures	355	28.00	3.00	25.00	89.29%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
T	OH Cond. & Devices	356	43.00	3.00	40.00	93.02%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

Report date: 3/29/2022

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

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
T	Underground Conduit	357	39.00	4.00	35.00	89.74%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
T	Underground Conductor	358	32.00	7.00	25.00	78.13%	Asset Total Depreciable Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

Notes: Note (1): Transmission assets noted in this table 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), (B)(3)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
TS	T - Station Inspections	The goals are to (1) prevent unplanned outages or failures and/or safety hazards by identifying and correcting problems during scheduled inspections; and (2) reduce customer outages and associated call-outs for station problems by detecting problems and correcting them in a timely manner.	Yes
TS	T - Circuit Breakers and Reclosers	The goals of this program are to (1) prevent misoperations or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for circuit breaker problems by replacing limited lifetime components in a timely manner.	Yes
TS	T - Transformers	The goals of this program are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; (2) reduce safety hazards, customer outages and associated call-outs for transformer problems by replacing limited lifetime components in a timely manner; and (3) utilize best practices and technology to achieve optimum loading of all transformers.	Yes
TS	T - Voltage Regulators	The goals are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for voltage regulator problems by replacing limited lifetime components in a timely manner.	Yes
TS	T - Capacitor Banks	The goals are to (1) prevent unplanned outages or failures by identifying and correcting problems during scheduled inspections; and (2) reduce safety hazards, customer outages and associated call-outs for capacitor bank problems by replacing limited lifetime components in a timely manner.	Yes
T	T - Line Inspections	The intent of line inspections is to check the present condition of a line and determine if any of its components exhibit a near term potential to fail and cause an outage or a safety problem.	Yes
T	T - Line Maintenance	The intent of line maintenance is to avoid line outages and/or safety concerns whenever practical and to minimize the duration of outages when they occur.	Yes

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

Asset type	Program Name	Program Goals	Goals achieved?
TS	T - Protection and Control	Protective relaying schemes continually monitor the power system and protect lines and station equipment from damage by isolating those facilities from system disturbances. These sophisticated protective systems are designed to minimize the number of customer outages, safety issues and pieces of equipment affected. The objectives of the maintenance program are to prevent misoperation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	Yes
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.	Yes

Notes:

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

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Station Inspections	Each transmission station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.	100%	2021 Goal = inspect 88 T-stations on a monthly basis; 2021 Results = inspected 97 T-stations on a monthly basis. (110 % of goal achieved).
T - Circuit Breakers and Reclosers	Preventive maintenance on circuit breakers and reclosers is evolving from traditional time-based maintenance to Condition Based Maintenance (CBM), which includes time and operation intervals. Some of the principles of Reliability Centered Maintenance (RCM) are also being applied. RCM focuses on the reliability of components and is triggered by conditions that exist such as the total number of operations that have occurred since the last maintenance, which indicates the amount of duty (or use) the operating mechanism has incurred.	100%	External inspections & maintenance: 2021 Goal = 31; 2021 Results = 34 (109% of goal achieved); Internal inspections & maintenance: 2021 Goal = 4; 2021 Results = 5 (125% of goal achieved);
T - Transformers	Reliable operation of transformers requires that all components of these devices be in serviceable condition. These devices have a number of mechanical and electrical parts that require special attention. The maintenance program for transformers includes procedures that provide for monitoring, testing and planned maintenance to assure the integrity of these components and the overall performance of the transformers.	100%	Minor external inspections & maintenance: 2021 Goal = 15; 2021 Results = 24 (160% of goal achieved); Major internal inspections & maintenance: 2021 Goal = 0; 2021 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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10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Voltage Regulators	Reliable operation of voltage regulators requires that all components of these devices be in serviceable condition. These devices have a number of mechanical and electrical parts that require special attention. The maintenance program for voltage regulators includes procedures that provide for testing and planned maintenance to assure the integrity of these components and the overall performance of the voltage regulators.	Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2021 for OPCO voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.	The maintenance performed on voltage regulators during 2021 was the result of monthly station inspections and periodic infrared inspections. Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems when found are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.
T - Capacitor Banks	Reliable operation of capacitor banks requires that all components of these devices and their associated switchgear is in serviceable condition. These devices have relatively few mechanical parts that require special attention. The maintenance program for capacitor banks includes procedures that provide for testing and planned maintenance to assure the integrity of these components and the overall performance of the capacitor bank.	Since capacitor banks are comprised of sealed units, with essentially no moving parts, minimal maintenance is required. Any maintenance that is required is normally scheduled to coincide with station breaker maintenance.	The maintenance performed on capacitor banks during 2021 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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10a. 4901:1-10-26(B)(3)(f), (B)(3)(f)(i), (B)(3)(f)(ii) If response in Column "Goals achieved?" of Report 10 is "Yes"

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Line Inspections	OHTCO has a total of 847 miles of transmission lines ranging from 69 kV to 765 kV in voltage. Various types of construction have been used over the years ranging from typical wood pole structures to large lattice towers. Inspection methods vary and can be performed from the air, ground, or by climbing a structure. All structures or a few targeted structures in a line may be inspected at a given time utilizing one or more inspection methods.	Inspect 847 T-line miles, 100%.	2021 Goal = inspect 847 T-line miles; 2021 Results = 100% of transmission lines inspected. Please see below for additional information of the findings.
T - Line Maintenance	Data collected as part of the line inspection program is analyzed and categorized to establish a work plan. The most serious items detected that can lead to line outages and/or safety hazards, such as broken poles or cross-arms, are scheduled for prompt corrective action. Less serious problems, such as loose bolts or broken ground wires, which have little or no chance of causing outages or safety issues are catalogued as non-critical and scheduled for replacement or repair in a timely, but less critical manner. Typically, these problems are corrected as general line maintenance is performed but, in some cases, may become part of a capital line rebuild or rehabilitation program.	Scheduled and performed transmission line maintenance, as necessary, based on issues identified during inspections.	OHTCO remedied 3 identified T-line problems in 2021.

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

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
T - Protection and Control	Protective relaying schemes continually monitor the power system and protect lines and station equipment from damage by isolating those facilities from system disturbances. These sophisticated protective systems are designed to minimize the number of customer outages, safety issues and pieces of equipment affected. The objectives of the maintenance program are to prevent misoperation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	2021 Goal = 186 T - discrete relay calibrations; 2021 Goal = 1,608 T - functional trip tests on relay trip paths.	T-Calibrations on discrete relays: 2021 Goal = 186; 2021 Results = 306 (100% of goal achieved); T-Functional trip tests on relay trip paths: 2021 Goal = 1,608; 2021 Results = 2,858 (100% of goal achieved).
T - Right-of-Way Vegetation Control	Data from bi-annual aerial inspections and ongoing ground inspections are used to prioritize schedules and plan the most efficient maintenance techniques. These plans are then implemented by our foresters.	Maintain 71 miles of T-line rights-of-way.	2021 Goal = maintain 71 miles of T-line right-of-way; 2021 Results = maintained 152 miles. (214% of goal achieved)

Notes:

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

Program Name	Cause(s) for not achieving goals	Description of level of completion	Quantitative description of level of completion	Summary of Findings
T - Station Inspections	N/A	N/A	N/A	N/A
T - Circuit Breakers and Reclosers	N/A	N/A	N/A	N/A
T - Transformers	N/A	N/A	N/A	N/A
T - Voltage Regulators	N/A	N/A	N/A	N/A
T - Capacitor Banks	N/A	N/A	N/A	N/A
T - Protection and Control	N/A	N/A	N/A	N/A
T - Right-of-Way Vegetation Control	N/A	N/A	N/A	N/A
T - Line Inspections	N/A	N/A	N/A	N/A
T - Line Maintenance	N/A	N/A	N/A	N/A

Notes:

AEP Ohio Transmission Company, Inc.
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10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Station Inspections	The replacement of burned out control panel and equipment lights are accomplished during the inspection. Also, station batteries are inspected for corroded terminals and any abnormal cells. Terminals are cleaned and any abnormalities are reported into the tablet computers. Battery ground lights are checked which could indicate a possible ground in the DC system, and the overall battery voltage and battery charger voltage and current are taken and recorded, with the battery charger output voltage adjusted as necessary during the inspection. Control house heaters, air conditioning units or heat pumps are checked to ensure these devices are operating properly. Station grounds are inspected with special attention to the fence and gates to ensure the station is secure. Any problems with the fence or gate are repaired. If permanent repairs cannot be completed at this time it is noted in the tablet computers and temporary repairs are made. During the inspection personnel inspect the yards, structures and equipment for broken insulators, bird nests and other yard debris.	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.	12/31/2021	None required.	N/A

AEP Ohio Transmission Company, Inc.
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10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Circuit Breakers and Reclosers	Of the maintenance performed on substation circuit breakers and reclosers during 2021, typical problems discovered are summarized as follows - bushings that exhibited elevated power factor test results, gas leaks, deteriorated oil based on test results, deteriorated or worn internal tank components (interrupters, elevated contact resistance, moisture intrusion), compressor system problems, and mechanism problems.	Typical remediation for bushings that exhibited elevated power factor readings would be an accelerated testing schedule or a scheduled replacement. Gas leaks are addressed based on the severity and the location of the gas leak. If the gas leak is severe, a complete overhaul of the circuit breaker may be required which would be scheduled as soon as practical. Deteriorated oil is typically cleaned and reclaimed by filtering at the time of the circuit breaker/recloser internal inspection, or replaced with new oil if the level of deterioration warrants. Deteriorated or worn internal components are typically replaced or repaired during the circuit breaker/recloser internal inspection, however, judgment is used on continued serviceability and the circuit breaker may be placed on an accelerated inspection schedule. Compressor system problems and mechanism problems are addressed when found as these conditions can affect the timing and operation of the circuit breaker or recloser. Any moisture intrusion is typically corrected at the time of the internal inspection.	12/31/2021	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.	N/A

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

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Transformers	Of the maintenance performed on substation transformers during 2021, 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 easily repaired would be scheduled for repair based on the severity of the condition and the level of resources required. Load Tap Changer contacts exhibiting excessive wear are generally replaced during the LTC inspection process and LTC filtration units are maintained as conditions warrant. Debris in transformer cooling systems (radiators) are typically removed when found, however, transformers with coolers instead of radiators require high-pressure washing which must be scheduled. Defective gauges found are either recalibrated or scheduled for replacement in the normal course of business.	12/31/2021	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.	N/A
T - Voltage Regulators	Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems when found are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.	Typical problems discovered are loose connections, control cabinet problems, or control problems associated with an excessive number of tap changer operations. These problems when found are either resolved at that time or subsequently scheduled for repair or replacement of the voltage regulator.	12/31/2021	None required.	N/A

Report date: 3/29/2022

AEP Ohio Transmission Company, Inc.
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10c. 4901:1-10-26(B)(3)(f), (B)(3)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Capacitor Banks	Prior to each peak load season (winter and/or summer) station capacitor banks are checked, typically during a monthly station inspection, to make sure that the unit is operating properly and will be available when called upon to support system voltages. Should a component failure, such as a capacitor can, fuse or vacuum bottle, be identified as part of the monthly station inspections, the failed unit is simply replaced with a new unit. Typically these repairs are made shortly after the condition is identified.	Prior to each peak load season (winter and/or summer) station capacitor banks are checked, typically during a monthly station inspection, to make sure that the unit is operating properly and will be available when called upon to support system voltages. Should a component failure, such as a capacitor can, fuse or vacuum bottle, be identified as part of the monthly station inspections, the failed unit is simply replaced with a new unit. Typically these repairs are made shortly after the condition is identified.	12/31/2021	None required.	N/A
T - Line Inspections	A major portion of the conditions found involved structural components such as poles, cross arms, guying and hardware. Insulator problems (chipped, burned, broken) and conductor/shieldwire problems were the next largest group of conditions found. Relatively fewer conditions involved transmission corridor problems such as easement encroachments, landslides or washouts. Various miscellaneous conditions were also noted including, among other things, missing structure numbering signs, damaged crossing markings and foreign attachments.	The line conditions remedied included the most severe structural conditions while the more moderate structural conditions were noted for subsequent corrective action. Defective insulators requiring immediate attention were also replaced. Urgent transmission corridor problems were dealt with immediately, while others may require longer-term litigation or engineering studies to resolve. Additionally, many corrective actions were made to facilities during restoration efforts following major storm activity.	12/31/2021	None required.	N/A

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

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Line Maintenance	Data collected as part of the line inspection program is analyzed and categorized to establish a work plan. The most serious items detected that can lead to line outages and/or safety hazards, such as broken poles or cross-arms, are scheduled for prompt corrective action. Less serious problems, such as loose bolts or broken ground wires, which have little or no chance of causing outages or safety issues are catalogued as non-critical and scheduled for replacement or repair in a timely, but less critical manner.	Typically, these problems are corrected as general line maintenance is performed but, in some cases, may become part of a capital line rebuild or rehabilitation program.	12/31/2021	None required.	N/A
T - Protection and Control	Most of the relay systems were found to be in good operating condition and did not require any corrective maintenance. In some instances, the Protection and Control maintenance program identified relays and relay schemes that were inoperative or partially inoperative due to dirty contacts, coils, associated wiring, or other components. Relays that were found to be inaccurate or inoperative were recalibrated or in some cases replaced if the physical condition warranted. Relay schemes that failed to operate as designed due to component failure were restored to full functionality through a number of means including the cleaning of contacts, the adjustment of components, and the replacement of failed parts.	Any deficiencies identified were either rectified at the time of discovery or as soon as replacement parts were available. The problems that were identified and corrected helped to ensure the safety of our system, reduce outages to customers, and prevent possible damage to other power system equipment.	12/31/2021	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 Intelligent Process Solutions (IPS) Database.	N/A

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

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Right-of-Way Vegetation Control	N/A	None required.	12/31/2021	None required.	N/A

Notes:

AEP Ohio Transmission Company, Inc.
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10d. 4901:1-10-26(B)(3)(f): Current Year Goals

Asset Type	Program Name	Program Goals
TS	T - Station Inspections	2022 Goal = inspect 97 transmission stations on a monthly basis.
TS	T - Circuit Breakers and Reclosers	2022 Goal = 27 external inspections and maintenance; 2022 Goal = 7 internal inspections and maintenance.
TS	T - Transformers	2022 Goal = 14 minor external inspections and maintenance; 2022 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 2022 for OTC voltage regulators. Data from monthly station inspection programs is continually monitored and evaluated. If necessary, regulator maintenance will be performed as equipment conditions warrant.
TS	T - Capacitor Banks	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.
T	T - Line Inspections	2022 Goal = Inspect 100% of OHTCO transmission lines.
T	T - Line Maintenance	The 2022 goal is to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.
TS	T - Protection and Control	2022 Goal = 300 T - discrete relay calibrations; 2022 Goal = 2,523 T - functional trip tests on relay trip paths.
T	T - Right-of-Way Vegetation Control	2022 Goal = maintain 152 miles of transmission line right-of-way.

Notes:

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

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

Notes:

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

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	Beatty-Galloway 69kV & Blair-Galloway 69kV	8/15/2017	Rebuild limiting sections of 69kV line. Upgrade Beatty 138/69kV XF, and install Cole 138/69kV XF and improve protection to eliminate conditions that overload the line.	10/31/2022	N/A	N/A
Transmission	Bethel-Brookside 138kV & Brookside-Sawmill 138kV	1/2/2018	Rebuild and upgrade 138kV line from Bethel to Brookside to Sawmill.	5/17/2022	N/A	N/A
Transmission	New Liberty - N. Findlay, Findlay - Morrical - New Liberty	10/26/2018	Rebuild New Liberty - Findlay and New Liberty - North Baltimore 34.5 kV Lines. Install one line 138kV circuit breaker, low side T1 34.5 kV circuit breaker, and high side T1 138kV circuit switcher at N. Findlay Station. Install second 138/69/34.5kV transformer and two low side circuit breakers for T1 and T2 at Ebersole Station.	12/13/2022	N/A	N/A
Transmission	N. Findlay - Plaza St 34.5kV, Plaza St - Findlay Center 34.5kV, Findlay - Findlay Center 34.5kV	5/31/2017	Rebuild Midland Sw - Plaza St, Plaza St - E. Findlay, and Findlay - Findlay Center 34.5kV lines.	5/23/2023	N/A	N/A
Transmission	TLN160:01099 - Glencoe-Speidel TLN160:01095 - Robyville-South Cadiz	6/1/2016	Construct West Bellaire-Glencoe 138kV T-Line and expand Glencoe 138-69kV substation	3/30/2022	Carefully monitor area power flows and re-route power during emergencies (switching solutions).	N/A
Transmission	Elliott - Ohio University 69 kV circuit and Strouds Run - Clark Street 69 kV circuit.	9/16/2019	Rebuild the Elliott - Ohio University 69 kV section that is getting overloaded. Rebuild the Clark Street - Strouds Run 69 kV circuit. Replace the Elliott 138/69/12 kV transformer.	7/1/2022	N/A	N/A

Report date: 3/29/2022

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

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	Dublin - Sawmill 138 kV	3/25/2019	Build a new greenfield 138 kV line from Amlin - Dublin	6/1/2022	NA	N/A
Transmission	Peoria - Darby, Peoria - Union REA, Union REA - Honda MT 69 kV (In Dayton)	6/1/2015	Add 345 kV breakers at Marysville to accommodate line to DP&L's Peroria station	6/1/2021	NA	NA
Transmission	Fremont Center - Maple Grove - Riverview 69 kV	10/6/2020	Install 138 kV breaker at Fremont Station along with 69 kV capacitor at Bloom Rd.	6/1/2025	NA	NA
Transmission	W. New Philadelphia XF	10/6/2020	Install 138 kV breaker on transformer #2 and on line towards the Newcomertown at West New Philadelphia	6/1/2025	NA	NA
Transmission	Southside - Sterling 34.5 kV	10/6/2020	Install highside circuit switchers on transformers #1 &2 at Rockhill to solve the problematic contingency	6/1/2025	NA	NA
Transmission	Overloading 34.5 kV and 69 kV facilities in Leipsic, Lima area	11/4/2020	Rebuild and convert the existing East Leipsic - New Liberty 34.5 kV line to 138 kV	6/1/2025	NA	NA
Transmission	Easton - North Canton 69 kV	10/16/2020	Install sectionalizing at Wagenhals to address problematic contingency	6/1/2025	NA	NA
Transmission	Newcomertown - Salt Fork 69 kV line	11/4/2020	Rebuild 8.9 miles of copper conductor between Newcomertown and Salt Fork Sw that is overloading	6/1/2025	NA	NA
Transmission	East Lancaster - Lancaster, Lancaster - South Lancaster, Ralston - Lancaster Jct 69 kV	11/4/2020	Rebuild 6.5 miles of copper conductor in the Lancaster Area that is overloading	6/1/2025	NA	NA

Report date: 3/29/2022

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
Transmission	West Mt Vernon XF, West Mt Vernon - Mt Vernon 69 KV	12/1/2020	Replace W. Mt Vernon 138/69 kV XF and rebuild 4 miles of 69 kV line between W. Mt Vernon and Mt. Vernon stations that are overloading	6/1/2025	NA	NA
Transmission	Salt Fork - Leather Wood SW 69kV	8/30/2021	Rebuild ~4.2 miles of overloaded sections of the 69 kV line between Salf Fork Sw. and Leatherwood Sw.	6/1/2025	NA	NA
Transmission	North Delphos - East Delphos, North Delphos - South Delphos & North Delphos - Elida Rd 69kV	8/30/2021	Rebuild of approximately 3.5 miles of the overloaded sections on the 69 kV lines around the Delphos area	6/1/2026	NA	NA
Transmission	North Van Wert Sw. - Van Wert 69 kV	10/15/2021	Rebuild from North Van Wert Switch to structure 25 (~2.3 miles) as single circuit 69kV	9/1/2025	NA	NA
Transmission	Meigs - Hemlock 69kV	12/18/2020	Replace the Meigs 69 kV 4/0 Cu station riser towards Gavin and rebuild the section of the Meigs – Hemlock 69 kV circuit from Meigs to approximately structure #40 (~4 miles) replacing the line conductor 4/0 ACSR with the line conductor size 556.5 ACSR.	6/1/2024	NA	NA
Transmssion	Swamill - Lazelle & Westerville - Genoa 69kV	12/18/2020	Rebuild 4.23 miles of 69 kV line between Sawmill and Lazelle station, Rebuild 1.94 miles of 69kV Line between Westerville and Genoa stations, Replace risers and switchers at Lazelle, Westerville, and Genoa stations.	6/1/2025	N/A	N/A

Report date: 3/29/2022

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
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Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Facility Type	Deleted Program Name
D	None
T	None
TS	None
TD	None

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Facility Type	Deleted Program Name
D	None
T	None
TS	None
TD	None

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Facility Type	Deleted Program Name
D	None
T	None
TS	None
TD	None

Notes:

AEP Ohio Transmission Company, Inc.
Rule 26 Report for 2021

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

Date of Interruption	Time of Interruption	Type of entity causing interruption	Name of entity causing interruption	Impact on Transmission or Distribution	Sub/Circuit Interrupted	Cause of interruption
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Notes:

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Case No(s). 22-0996-EL-ESS

Summary: Report AEP Ohio Transmission Company, Inc.'s 2020 Rule 26 Report
electronically filed by Michael J. Schuler on behalf of AEP Ohio Transmission
Company, Inc.