

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of the)	
Electric Service and Safety Standards,)	Case No: 23 -0996 -EL-ESS
Pursuant to Rule 4901:1-10-26(B) of the Ohio)	
Administrative Code)	

ANNUAL REPORT OF
Ohio Power Company
submitted for the year 2022 .

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


Signature

THOMAS A KRAFT
Printed Name

NEP Ohio VP DISTRIBUTION OPS
Title

03.30.2023
Date

Ohio Power Company
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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
Distribution	36,742	9,602	
Transmission	7,352	45	

Notes:

**Ohio Power Company
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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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	2/22/2022	Outage	crews found a broken insulator on @ pole 1138C1-5. POR 3600681	Yes	2/22/2022	
Adams	3/1/2022	Outage	Drop and pick to isolate burning wire	Yes	3/1/2022	
Frontier	6/2/2022	Outage	Tree on line	Yes	6/2/2022	
Frontier	6/16/2022	Outage	tree at structure 338	Yes	6/16/2022	
Hancock-Wood	7/2/2022	Outage	Burnt Sub T pole	Yes	7/2/2022	
Hancock-Wood	7/23/2022	Outage	Tree on	Yes	7/23/2022	
Hancock-Wood	7/23/2022	Outage	tree on	Yes	7/23/2022	
Frontier	7/23/2022	Outage	tree on	Yes	7/24/2022	
Buckeye Rural Electric Coop	1/17/2022	Outage	Removed Vegetation Fall in from outside of right of way	Yes	1/17/2022	
Washington Electric Cooperative	1/25/2022	Outage	Nothing found on patrol	Yes	1/26/2022	
South Central Power	2/3/2022	Outage	Multiple vegetation fall-in locations and one broken str	Yes	2/3/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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	2/3/2022	Outage	Multiple vegetation fall-in locations and one broken str	Yes	2/4/2022	
South Central Power	2/3/2022	Outage	Broken OH conductor at Str 88	Yes	2/4/2022	
Guernsey-Muskingum Elec. Coop.	2/3/2022	Outage	Broken insulator and storm debris on line on the Glencoe-Robyville 69kv ckt between Harrisville Sw and Robyville interrupted the radial feed to Antrim	Yes	2/3/2022	
Guernsey-Muskingum Elec. Coop.	2/3/2022	Outage	Vegetation fall-in from outside ROW on the East Cambridge-Vail Sw 69kv ckt between Old Washington and Antrim.	Yes	2/3/2022	
Guernsey-Muskingum Elec. Coop.	2/3/2022	Outage	Antrim on Radial from Glencoe; Section of the Glencoe-Robyville between Glencoe and St. Clairsville locked out due to vegetation fall-in from out of ROW.	Yes	2/4/2022	
South Central Power	2/3/2022	Outage	Broken insulator and debris on the line on the Glencoe-Robyville 69kv ckt section between Harrisburg and Robyville.	Yes	2/4/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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?
Guernsey-Muskingum Elec. Coop.	2/4/2022	Outage	Vegetation fall-in on the Crooksville-Philo 138 kv ckt between Cannelville Sw and Crooksville.	Yes	2/4/2022	
Buckeye Rural Electric Coop	2/4/2022	Outage	Broken Conductor on the Buckeye Co-op - East Beaver 69kv ckt just outside of Beaver station.	Yes	2/4/2022	
South Central Power	2/6/2022	Outage	Vegetation fall-in from outside of ROW, multiple locations (Str 161 & 132) on the Hillsboro-Millbrook Park 138kv ckt between Sinking Springs Sw and Millbrook Park.	Yes	2/6/2022	
Guernsey-Muskingum Elec. Coop.	2/6/2022	Outage	Vegetation fall-in at Str 126 of the Broom Road-Newcomerstown 69kv ckt between Kimbolton and Newcomerstown	Yes	2/6/2022	
Licking Rural Electrification, Inc.	2/18/2022	Outage	Vegetation fall-in from outside ROW @ STR 26 of the on the Shreve-West Millersberg 69KV CKT between Ripley Sw, West Nashville, and Loudenville	Yes	2/18/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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?
Buckeye Rural Electric Coop	2/18/2022	Outage	Broken Conductor on the Buckeye Co-op - East Beaver 69kv ckt just outside of Beaver station.	Yes	2/18/2022	
Holmes-Wayne Elec. Coop., Inc.	2/18/2022	Outage	Vegetation fall-in from outside ROW at Str 69 on the Shreve-West Millersberg 69KV CKT between Ripley Sw, West Nashville, and Loudenville	Yes	2/18/2022	
Guernsey-Muskingum Elec. Coop.	5/3/2022	Outage	Tree damaged structure 229. Broom Road - Newcomerstown 69kV circuit	Yes	5/3/2022	
Consolidated Coop	5/12/2022	Outage	Transformer locked out and high side Moab failed to open at Fulton	Yes	5/13/2022	
Consolidated Coop	5/12/2022	Outage	Transformer locked out and high side Moab failed to open at Fulton	Yes	5/13/2022	
Mid-Ohio Energy	5/12/2022	Outage	Transformer locked out and high side Moab failed to open at Fulton	Yes	5/13/2022	
Mid-Ohio Energy	5/12/2022	Outage	Transformer locked out and high side Moab failed to open at Fulton	Yes	5/13/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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.	5/20/2022	Outage	Vegetation fall in from outside ROW near structure 61. Compton Sw - Madisonburg 69kV circuit	Yes	5/20/2022	
Holmes-Wayne Elec. Coop., Inc.	5/20/2022	Outage	Vegetation fall in from outside ROW near structure 61. Compton Sw - Madisonburg 69kV circuit	Yes	5/21/2022	
Buckeye Rural Electric Coop	6/11/2022	Outage	Broken Crossarm at Structure 9. Conductor fell into Coop underbuilt. Firebrick - Lick 69kV circuit	Yes	6/11/2022	
North Central Electric Cooperative, Inc	6/13/2022	Outage	Nothing was found on patrol. Bucyrus Center - Upper Sandusky 69kV circuit	Yes	6/14/2022	
Holmes-Wayne Elec. Coop., Inc.	6/13/2022	Outage	Storm damage. Beartown - Moreland Sw 69kV circuit	Yes	6/15/2022	
Licking Rural Electrification, Inc.	6/13/2022	Outage	Vegetation contact from outside ROW. Shreve - West Millersburg 69kV circuit	Yes	6/15/2022	
Holmes-Wayne Elec. Coop., Inc.	6/13/2022	Outage	Vegetation contact from outside ROW. Shreve - West Millersburg 69kV circuit	Yes	6/15/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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.	6/14/2022	Outage	Vegetation contact and broken poles at structures 11-13. West Wooster - Wooster 69kV circuit	Yes	6/18/2022	
Guernsey-Muskingum Elec. Coop.	6/14/2022	Outage	Vegetation contact from outside ROW. Philo - South Canton 138kV circuit	Yes	6/14/2022	
Guernsey-Muskingum Elec. Coop.	6/14/2022	Outage	Vegetation contact from outside ROW. Philo - South Canton 138kV circuit	Yes	6/14/2022	
Guernsey-Muskingum Elec. Coop.	6/14/2022	Outage	Storm damage. Broom Road - Newcomerstown 69kV circuit	Yes	6/14/2022	
Licking Rural Electrification, Inc.	6/14/2022	Outage	Vegetation fall in from outside ROW near structure 37. Ohio Central - North Newark 138kV circuit	Yes	6/14/2022	
Carrol County	6/14/2022	Outage	Broken conductor at structure 86. Carrollton - East Dover 69kV circuit	Yes	6/15/2022	
Carrol County	6/14/2022	Outage	Broken conductor at structure 86. Carrollton - East Dover 69kV circuit	Yes	6/15/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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	6/14/2022	Outage	Tree fell into circuit North Logan - South Lancaster 69kV circuit	Yes	6/15/2022	
South Central Power	6/14/2022	Outage	Vegetation contact Harrison - Marion 138kV circuit	Yes	6/14/2022	
Guernsey-Muskingum Elec. Coop.	6/16/2022	Outage	Vegetation contact from outside ROW. Broom Road - Newscomerstown 69kV circuit	Yes	6/16/2022	
Paulding Putnam	6/26/2022	Outage	Suspected Trees in circuit. Nothing found during patrol. East Lima - Yellow Creek 138kV circuit.	Yes	6/26/2022	
Midwest Electric, Inc	6/27/2022	Outage	Suspected trees in circuit. Nothing found on patrol. East Lima - Yellow Creek 138kV circuit	Yes	6/27/2022	
South Central Power	7/4/2022	Outage	Fault originated on SCP equipment and AEP equipment cleared the fault. Bixby - Shannon 138kV circuit	Yes	7/5/2022	
South Central Power	7/28/2022	Outage	Failed insulator and burnt pole near structure 71. Glencoe - Robyville 69kV circuit	Yes	7/28/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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?
Hancock - Wood Electric Coop Inc	8/7/2022	Outage	Vehicle accident hit sub transmission pole between New Liberty and Liberty Hi Sw. New Liberty - North Baltimore 34kV circuit	Yes	8/14/2022	
Paulding Putnam	8/21/2022	Outage	Bus outage at Haviland station. Convoy station was on radial so when the bus was outaged at Haviland Convoy was without power.	Yes	8/21/2022	
South Central Power	8/21/2022	Outage	Circuit tripped during storm. N. O. CB at Darbyville did not close. Circuit was restored via Harrison. No issues found. Harrison - Madison 69kV circuit	Yes	8/21/2022	
South Central Power	8/21/2022	Outage	Circuit tripped during storm. N. O. CB at Darbyville did not close. Circuit was restored via Harrison. No issues found. Harrison - Madison 69kV circuit	Yes	8/21/2022	
Frontier Power	9/13/2022	Outage	Newcomerstown - Morgan Run 34kV circuit. Tree on circuit between structures 146-148.	Yes	9/13/2022	
Frontier Power	9/13/2022	Outage	Newcomerstown - Morgan Run 34kV circuit. Tree on circuit between structures 146-148.	Yes	9/13/2022	

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2. 4901:1-10-26(B)(1)(b), (B)(1)(c) 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	10/14/2022	Outage	Pole fire on the corner of S.R. 104 Harrison - Madison 69kV circuit	Yes	10/15/2022	
Frontier Power	11/21/2022	Outage	Vehicle struck pole. Broken insulator on structure 3 needed repairs Killbuck - South Coshocton 34	Yes	11/22/2022	
Holmes-Wayne Elec. Coop., Inc.	11/30/2022	Outage	Vegetation fall in from outside ROW. Glenmont - Killbuck 34kV circuit	Yes	11/30/2022	
Mid-Ohio Energy	12/7/2022	Outage	Circuit Breaker B failed at Kenton station.	Yes	12/7/2022	
South Central Power	12/23/2022	Outage	Conductor down on circuit extension towards Texas Eastern and Deercreek. Harrison - Madison 69kV circuit	Yes	12/23/2022	

Notes:

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5. 4901:1-10-26(B)(2), (B)(2)(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
Distribution	The initial construction of overhead and underground facilities follows AEP's material and construction standards that incorporate National Electrical Safety Code requirements. These standards were adopted to safely and reliably operate AEP's extensive transmission and distribution system in its 11-state service area. Once built and energized, the facilities are subject to mechanical and electrical stresses from various causes, including conductor and equipment loadings, severe weather, accidents and vandalism. These conditions will eventually lead to the need for maintenance, repair or replacement of the assets.	AEP/OPCO Distribution currently provides safe, adequate and reliable service to approximately 1,519,062 customers within Ohio. These facilities have the capacity to serve our existing customers and provide a solid foundation for service extension for any new additional customers. AEP plans to provide safe, adequate, and reliable power for its Ohio customers through the company's continuous distribution planning process. This process relies on distribution planners strategically located throughout AEP's Ohio service territories who continually monitor the effect of changes in customer load and other requirements on the AEP system. This is accomplished, in part, by: routine comprehensive distribution load forecasting; continual analysis of the impact of present and projected loading on substation and distribution equipment; determination of safe, effective, and reliable overcurrent protection systems; and the development of cost-effective future short and long-range distribution system infrastructure plans which will allow AEP to meet the needs of its Ohio customers.
Distribution	Industry research and AEP's 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 AEP's 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 AEP's annual operation and maintenance plans.	AEP/OPCO's inspection and maintenance programs have been developed and implemented with the objective of achieving optimal performance in safety, reliability and cost efficiencies over the life-cycle of the assets. These inspection and maintenance programs, in addition to closely monitoring customer complaints to gain insight into areas that may require process improvement efforts, provide the "checks and balances" required to maintain a reliable distribution system.
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)(2), (B)(2)(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
Distribution	7	3	0	2	2	0	0	14
Transmission	0	0	0	0	0	0	0	0

Notes:

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7a. 4901:1-10-26(B)(2)(c), (B)(2)(c)(i) Transmission capital expenditures

Total transmission capital expenditures in 2022	\$133,188,679
Total Transmission investment as of year end	\$3,196,136,000
Transmission capital expenditures as % of total transmission investment	4.17%

Notes:

7b. 4901:1-10-26(B)(2)(c), (B)(2)(c)(i) Transmission maintenance expenditures

Total transmission maintenance expenditures in 2022	\$28,683,487
Total Transmission investment as of year end	\$3,196,136,000
Transmission maintenance expenditures as % of total transmission investment	0.90%

Notes:

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7c. 4901:1-10-26(B)(2), (B)(2)(c)(ii), (B)(2)(c)(iii) Transmission capital expenditures - Reliability specific

Transmission capital budget category	2022 Budget	2022 Actual	% Variance	Explanation of variance if over 10%	2023 Budget
Construction Transmission - FERC Accounts 107	\$143,111,350	\$133,188,679	-6.93%		\$145,803,150

Notes:

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7d. 4901:1-10-26(B)(2), (B)(2)(c)(ii), (B)(2)(c)(iii) Transmission maintenance expenditures - Reliability specific

Transmission maintenance budget category	2022 Budget	2022 Actual	% Variance	Explanation of variance if over 10%	2023 Budget
Electric Transmission Operations - FERC Accounts 560 through 567	\$17,649,618	\$20,898,970	18.41%	Due to increased Operations Supervision & Engineering	\$16,338,650
Electric Transmission Maintenance - FERC Accounts 568 through 573	\$22,612,593	\$28,683,487	26.85%	Due to increased spending on Overhead Line Maintenance	\$32,300,111

Notes:

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8a. 4901:1-10-26(B)(2)(d), (B)(2)(d)(i) Distribution capital expenditures

Total distribution capital expenditures in 2022	\$591,332,166
Total distribution investment as of year end	\$6,444,769,482
Distribution capital expenditures as % of total distribution investment	9.18%

Notes:

8b. 4901:1-10-26(B)(2)(d), (B)(2)(d)(i) Distribution maintenance expenditures

Total distribution maintenance expenditures in 2022	\$137,702,337
Total distribution investment as of year end	\$6,444,769,482
Distribution maintenance expenditures as % of total distribution investment	2.14%

Notes:

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8c. 4901:1-10-26(B)(2), (B)(2)(d)(ii), (B)(2)(d)(iii) Distribution capital expenditures - Reliability specific

Distribution capital budget category	2022 Budget	2022 Actual	% Variance	Explanation of variance if over 10%	2023 Budget
Reliabilty Spend	\$193,620,282	\$158,214,650	-18.29%	Variance attributed to budget shift during the workplan execution.	\$162,831,412

Notes:

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8d. 4901:1-10-26(B)(2), (B)(2)(d)(ii), (B)(2)(d)(iii) Distribution maintenance expenditures - Reliability specific

Distribution maintenance budget category	2022 Budget	2022 Actual	% Variance	Explanation of variance if over 10%	2023 Budget
Electric Distribution Operations - FERC Accounts 580 through 589	\$72,961,081	\$76,530,333	4.89%		\$49,511,612
Electric Distribution Maintenance - FERC Accounts 590 through 598	\$139,549,380	\$137,702,337	-1.32%		\$144,839,975

Notes:

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9. 4901:1-10-26(B)(2)(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
Transmission	Structures & Improvements	352	55.00	16.00	39.00	70.91%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Transmission	Station Equipment	353	43.00	11.00	32.00	74.42%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Transmission	Towers & Fixtures	354	60.00	49.00	11.00	18.33%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Transmission	Poles & Fixtures	355	39.00	18.00	21.00	53.85%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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9. 4901:1-10-26(B)(2)(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
Transmission	OH Cond. & Devices	356	44.00	10.00	34.00	77.27%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Transmission	Underground Conduit	357	50.00	17.00	33.00	66.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Transmission	Underground Conductor	358	50.00	30.00	20.00	40.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Structures & Improvements	361	70.00	23.00	47.00	67.14%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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9. 4901:1-10-26(B)(2)(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
Distribution	Station Equipment	362	55.00	17.00	38.00	69.09%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Storage Battery Equipment	363	15.00	14.00	1.00	6.67%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Poles, Tower & Fixtures	364	38.00	27.00	11.00	28.95%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Overhead Conductor & Devices	365	32.00	11.00	21.00	65.63%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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9. 4901:1-10-26(B)(2)(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
Distribution	Underground Conduit	366	60.00	9.00	51.00	85.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Underground Conductor	367	50.00	20.00	30.00	60.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Line Transformers	368	32.00	12.00	20.00	62.50%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Services Overhead	369	43.00	24.00	19.00	44.19%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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9. 4901:1-10-26(B)(2)(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
Distribution	Meters	370	11.00	2.00	9.00	81.82%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Meters - gridSMART	370.16	15.00	6.00	9.00	60.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Installations on Customers Premises	371	15.00	11.00	4.00	26.67%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Installations on Customers Premises - gridSMART	371 AMI	15.00	12.00	3.00	20.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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9. 4901:1-10-26(B)(2)(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
Distribution	Installations on Customers Premises - Energy Bridge	371 Energy Bridge	15.00	15.00	0.00	0.00%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Leased Property on Cust. Premises	372	44.00	32.00	12.00	27.27%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.
Distribution	Street Lighting & Signal Systems	373	22.00	13.00	9.00	40.91%	Asset Remaining Life (Yrs) determined based on Depreciable Plant Base minus Accumulated Provision for Depreciation divided by the Depreciable Plant Base multiplied by the applied depreciation rate. FERC Form 1 – Pages 207, 219 and 337, and Powerplant Reports.

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)(2)(f), (B)(2)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
Distribution	D - Poles (Inspection & Treatment)	The program consists of a detailed inspection of company owned wood poles once every 10 years for all non-CCA poles in service 15 years or longer and CCA poles in service 30 years or longer.	Yes
Distribution	D - Poles (Replacement)	Replacement of poles with internal or external decay and inadequate strength that are not reinforceable.	Yes
Distribution	D - Poles (Reinforcement)	Reinforcement of poles with internal or external decay and inadequate strength.	Yes
Distribution	D - Circuit and Line Inspections	Conduct overhead circuit inspections based on a five year cycle.	Yes
Distribution	D - Primary and Secondary Enclosures	Conduct primary enclosure and secondary enclosure inspections based on a five year cycle.	Yes
Distribution	D - Line Reclosers (Maintenance)	Maintain reclosers on a 6 (+/-) year cycle.	No
Distribution	D - Line Reclosers (New Vacuum Replacements)	Replace hydraulic reclosers with new vacuum interrupting reclosers	Yes
Distribution	D-Network System - Vaults	Inspect All Network Vaults Annually	Yes
Distribution	D-Network System - Manholes	Inspect Network Manholes on a 4-year Cycle	Yes
Distribution	D-Network System - Protectors	Inspect All Network Protectors Annually	Yes
Distribution	D-Network System - Transformers	Structurally Inspect All Network Transformers Annually, Sample and Test Oil on Network Transformers on a 3-year Cycle	Yes
Distribution	D-Vegetation Right of Way Control	4-year Cycle Program	No
Distribution (1)	D - Line - Electronic reclosers (Inspections)	Full inspection annually plus a second inspection each year for battery check. 3675 reclosers, 7350 inspections	Yes

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10. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
Distribution (2)	D - Line - NonElectronic reclosers (Inspections)	Inspect all nonelectronic line reclosers annually. 7052 reclosers, 7052 inspections	Yes
Distribution (3)	D - Line Capacitors (Inspections)	Inspect all line capacitors annually. 3143 banks, 3143 inspections on 1/1/22; adjusted to 3121, see comments.	Yes
Transmission Station	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
Distribution Station	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.	Yes
Transmission Station	T - Circuit Breakers and Reclosers	The goals of this program are to (1) prevent mis-operations 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
Distribution Station	D - Circuit Breakers and Reclosers	The goals of this program are to (1) prevent mis-operations 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
Transmission Station	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

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10. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
Distribution Station	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.	Yes
Transmission Station	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
Distribution Station	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.	Yes
Transmission Station	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
Distribution Station	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.	Yes
Transmission	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
Transmission	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

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10. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i) Inspection, maintenance, repair, and replacement of distribution, transmission, and substation programs summary report

Asset type	Program Name	Program Goals	Goals achieved?
Transmission Station	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 mis-operation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	Yes
Distribution Station	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 mis-operation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	Yes
Transmission (4)	T - Right-of-Way Vegetation Control	The intent of right of way maintenance is to minimize line outages and/or safety hazards caused by vegetation growing too near energized conductors. Trees, shrubs and vines that have the potential to grow or fall into transmission lines must be removed or their growth contained.	No

Notes: (1) Some of the nonelectronic units were replaced with electronic units, and new units were added prior to the second inspection. These new units were inspected during the second inspection cycle which made the inspections completed shown in 10a greater than the goal.
(2) There were 258 units replaced during the year prior to the annual inspection. These replacement units are inspected as part of the installation and counted in the total.
(3) With replacements and unit retirements, the number to inspect was reduced to 3121 units. Inspections were completed on those units.
(4) Storm response from Derecho and associated work pulled crews from routine work plans

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D - Poles (Inspection & Treatment)	Goals were achieved using Contractor work force.	2022 projection = 63650 poles.	66624 poles (105%)
D - Poles (Replacement)	Goals were achieved using a combination of Company and Contractor work forces.	2022 projection = 2090 poles.	2774 poles (133%)
D - Poles (Reinforcement)	Goals were achieved using Contractor work force.	2022 projection = 0 poles.	0 poles (100%)
D - Circuit and Line Inspections	Goals were achieved using Company and Contractor work force.	2022 projection = 309 circuits.	310 circuits (100%)
D - Primary and Secondary Enclosures	Goals were achieved using Contractor work force.	2022 projection = 41800 structures.	47652 structures (114%)
D - Line Reclosers (New Vacuum Replacements)	Goals were achieved using Company and Contractor work force.	2022 projection = 29 reclosers.	64 reclosers (221%)
D-Network System - Vaults	Goals were achieved utilizing AEP Company work force	Completed all Network Vaults requiring inspection in 2022 - 309 Vaults were inspected (2022 projection was 314 vaults, however only 305 vaults were triggered for inspection, and all triggered were inspected) - 100%	Ground connections, trash and leaves clean out, plumbing issues, blown fuses, secondary hot spots

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D-Network System - Manholes	Goals were achieved utilizing AEP Company work force	Completed inspections of all Network Manholes scheduled in 2022 - 334 Manhole inspections were completed. (2022 projection was 338 Manholes, however, there were only 334 triggered for inspection. All triggered for inspection were completed) - 100%	Cable supports in need of repair, ground connections, manhole tops in need of repair
D-Network System - Protectors	Goals were achieved utilizing AEP Company work force	Completed inspections of all Network Protectors scheduled in 2022 associated with the Network system. 359 Network Protectors were inspected in 2022 (2022 projection was 357) - 100%	Leaking gaskets, no nitrogen pressure, bushings needing retaped, bad relays, defective monitor sensors
D-Network System - Transformers	Goals were achieved utilizing AEP Company work force	Completed inspections of Network Transformers in 2022 - 108 Network Transformers had oil samples and tests performed, and 345 Transformers were structurally inspected. (2022 projections were 108 oil sample and test, and 345 structural inspections) - 100%	Rust, DGA Oil test resampling

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D - Line - Electronic reclosers (Inspections)	Goals were achieved using Company work force.	3933 reclosers, 7464 inspections were completed	The full inspection and a second partial inspection (battery only) was completed on most units. A job to inspect the recloser is generated every six months, if a recloser is replaced before it is inspected, the job is cancelled, and a new job will generate in the next six month cycle. When a recloser is replaced, the unit being installed is inspected as part of the installation. Some new reclosers were installed during the year and also inspected during the second half inspection.
D - Line - NonElectronic reclosers (Inspections)	Goals were achieved using Company work force.	7121 reclosers were completed (6794 thru the annual inspection program plus 327 during replacement)	Inspect all reclosers annually. If a recloser is replaced during the year prior to inspection, an inspection of the new unit is not necessary because it is inspected during the installation. All necessary inspections were completed.
D - Line Capacitors (Inspections)	Goals were achieved using Company work force.	3149 banks, 3149 inspections were completed	Inspect all line capacitors annually. If a capacitor is replaced during the year prior to inspection, an inspection of the new unit is done during the installation. Twnty-one units were removed prior to inspection, which reduced the original goal.
D - 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.	Because 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 2022 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)(2)(f), (B)(2)(f)(i), (B)(2)(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.	2022 Goal: Inspect 237 T-station on a monthly basis.	2022 Results = inspected 241 T-stations on a monthly basis. (102% of goal achieved)
D - Station Inspections	Each distribution station is inspected monthly. Identified problems are noted on the inspection report and any serious condition is immediately reported to maintenance personnel.	2022 Goal: Inspect 463 D-stations on a monthly basis.	2022 Results = inspected 463 D-stations on a monthly basis. (100% 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.	2022 Goal = 80 external inspections and maintenance; 2022 Goal = 74 internal inspections and maintenance.	External inspections & maintenance: 2022 Goal = 80; 2022 Results = 83 (104% of goal achieved); Internal inspections & maintenance: 2022 Goal = 74; 2022 Results = 78 (105% of goal achieved).

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D - 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.	2022 Goal = 5 external inspection and maintenance; 2022 Goal = 152 internal inspections and maintenance.	External inspections & maintenance: 2022 Goal = 5; 2022 Results = 7 (140% of goal achieved); Internal inspections & maintenance: 2022 Goal = 152; 2022 Results = 156 (103% 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.	2022 Goal = 48 minor external inspections and maintenance; 2022 Goal = 0 major internal inspections and maintenance.	Minor external inspections & maintenance: 2022 Goal = 48; 2022 Results = 52 (108% of goal achieved); Major internal inspections & maintenance: 2022 Goal = 0; 2022 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.
D - 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.	2022 Goal = 72 minor external inspections and maintenance; 2022 Goal = 2 major internal inspections and maintenance.	Minor external inspections & maintenance: 2022 Goal = 72; 2022 Results = 76 (105% of goal achieved); Major internal inspections & maintenance: 2022 Goal = 2; 2022 Results = 2 (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)(2)(f), (B)(2)(f)(i), (B)(2)(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 2022 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 2022 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.
D - 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 distribution station feeder or bus regulator maintenance was planned in 2022 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 2022 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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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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 - 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.	Because 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 2022 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.
D - 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.	Because 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 2022 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.
T - Line Inspections	AEP Ohio has a total of 6,223 miles of transmission lines ranging from 23 kV to 765 kV in voltage. Various types of construction have been used over the years ranging from typical wood pole structures to large lattice towers. Inspection methods vary and can be performed from the air, ground, or by climbing a structure. All structures or a few targeted structures in a line may be inspected at a given time utilizing one or more inspection methods.	Inspect 6,223 T-line miles, 100%.	2022 Goal = inspect 6,223 T-line miles; 2022 Results = 100% of transmission lines inspected. Please see below for additional information of the findings.

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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 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.	AEP Ohio remedied 1170 identified T-line problems in 2022.
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.	2022 Goal = 602 T - discrete relay calibrations; 2022 Goal = 3,285 T - functional trip tests on relay trip paths.	T-Calibrations on discrete relays: 2022 Goal = 602 ; 2022 Results = 777 (100% of goal achieved); T-Functional trip tests on relay trip paths: 2022 Goal = 3,285 ; 2021 Results = 3,626 (100% of goal achieved).

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10a. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
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 mis-operation or failures of station equipment; minimize customer outages; minimize maintenance call-outs and maximize the life of station equipment.	2022 Goal = 718 D - discrete relay calibrations; 2022 Goal = 3,667 D - functional trip tests on relay trip paths.	D-Calibrations on discrete relays: 2022 Goal = 718; 2022 Results = 722 (100% of goal achieved); D-Functional trip tests on relay trip paths: 2022 Goal = 3,667; 2022 Results = 3,686 (100% of goal achieved).
T - Rights-of-Way Vegetation Control (1)	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 1,658 miles of T-line rights-of-way	2022 Goal = maintain 1,658 miles of transmission right-of-way; 2022 results = maintained 1,615 miles (97% of goal achieved)

Notes: (1) Storm response from Derecho and associated work pulled crews from routine work plans

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10b. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D - Line Reclosers (Maintenance)	Maintained fewer reclosers than projected but upgraded more reclosers.	More units were upgraded.	2022 projection = 478 reclosers.	449 reclosers (94%)
D - Vegetation - Right of Way Control	Mileage projection for 2022 was 7859 miles. The actual mileage goal based on the 2022 Vegetation Work Plan was 7772 miles. Due to labor and equipment increases associated with the contract labor required, and the subsequent cost per mile, the Veg workplan was not completed.	7366.2 miles	7366.2 miles completed (2022 Projection was 7859, with actual Work Plan mileage goal of 7772) - 95% of actual Work Plan completed.	N/A
D - Network System - Vaults	N/A	N/A	N/A	N/A
D Network System - Manholes	N/A	N/A	N/A	N/A
D - Line - Electronic reclosers (Inspections)	N/A	N/A	N/A	N/A
D - Line - NonElectronic reclosers (Inspections)	N/A	N/A	N/A	N/A
D - Line Capacitors (Inspections)	N/A	N/A	N/A	N/A
T - Station Inspections	N/A	N/A	N/A	N/A
D - Station Inspections	N/A	N/A	N/A	N/A
T - Circuit Breakers and Reclosers	N/A	N/A	N/A	N/A

Report date: 3/29/2023

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10b. 4901:1-10-26(B)(2)(f), (B)(2)(f)(i), (B)(2)(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
D - Circuit Breakers and Reclosers	N/A	N/A	N/A	N/A
T - Transformers	N/A	N/A	N/A	N/A
D - Transformers	N/A	N/A	N/A	N/A
T - Voltage Regulators	N/A	N/A	N/A	N/A
D - Voltage Regulators	N/A	N/A	N/A	N/A
T - Capacitor Banks	N/A	N/A	N/A	N/A
D - Capacitor Banks	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
T - Protection and Control	N/A	N/A	N/A	N/A
D - Protection and Control	N/A	N/A	N/A	N/A
T - Right-of-Way Vegetation Control	Storm response from Derecho and associated work pulled crews from routine work plans	97% completion	2022 Goal = maintain 1,658 miles of transmission right-of-way; 2022 results = maintained 1,615 miles (97% of goal achieved)	Storm response reduce availability of crews for routine maintenance

Notes:

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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
D - Poles (Inspection & Treatment)	Above and below ground inspection and treatment of poles.	Treated all poles that met criteria.	12/31/2022	None required.	
D - Poles (Replacement)	2244 reject poles found in 2022.	737 poles completed.	12/31/2022	1884 poles remain; 2021 program, 568 poles remain; 2020 program, 460 poles remain; 2019 program, 5 poles remain	Priority 12/31/2023; Non-Priority 12/31/2025
D - Poles (Reinforcement)	377 restorable poles found in 2022	0 completed.	12/31/2022	Poles will be reinforced or replaced	12/31/2025
D - Circuit and Line Inspections	5133 deficiencies found in 2022	4847 deficiencies repaired.	12/31/2022	286 deficiencies remain to be repaired.	12/31/2023
D - Primary and Secondary Enclosures	2809 deficiencies found in 2022	798 deficiencies repaired.	12/31/2022	2011 deficiencies remain to be reviewed for repair; 2021 program, 1005 remain; 2020 program, 1540 remain; 2019 program, 172 remain; 2018 program, 1415 remain	12/31/2023
D - Line Reclosers (Maintenance)	Reclosers in service 6 (+/-) years were identified and scheduled for replacement.	Replaced reclosers with reconditioned or new units.	12/31/2022	None required.	
D - Line Reclosers (New Vacuum Replacements)	A limited number of hydraulic reclosers in service 6 (+/-) years were identified and scheduled for replacement with vacuum units.	Replaced hydraulic reclosers with new vacuum reclosers.	12/31/2022	None required.	
D-Network System - Vaults	Ground connections, trash and leaves clean out, plumbing issues, blown fuses, secondary hot spots	Vaults cleaned out, ground connections and plumbing issues repaired, blown fuses replaced, and secondary hot spots repaired.	12/31/2022	No issues yet to be performed	
D-Network System - Manholes	Cable supports in need of repair, ground connections, manhole tops in need of repair	Cable supports and ground connections repaired	12/31/2022	Replacement of manhole tops	12/31/2023

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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
D-Network System - Protectors	Leaking gaskets, no nitrogen pressure, bushings needing retaped, bad relays, defective monitor sensors	Leaking gaskets, relays, and monitor sensors replaced, bushings retaped	12/31/2022	No issues yet to be performed	
D-Network System - Transformers	Rust, DGA Oil test resampling			Rust situations will be monitored with future inspections, and DGA resample tests will extend into 2023	6/30/2023
D-Vegetation - Right of Way Control	N/A	N/A	N/A	N/A	N/A
D - Line - Electronic reclosers (Inspections)	There were 64 locations found requiring action. Of the conditions found requiring action, 6% involved low battery, 7% involved arresters, 34% hardware issues, 3% cut grounds, and 50% involved connections, insulators, etc.	All other defects found have been referred to the line department for follow-up.	12/31/2022	Make repairs to remaining defects identified during the inspection.	12/31/2023
D - Line - NonElectronic reclosers (Inspections)	There were 50 locations found requiring action. Of the conditions found requiring action, approximately 2% were blown lightning arresters, 24% cut grounds, hardware 13%, and 61% miscellaneous problems such as, connections/offline, etc.	Miscellaneous defects involving ground connections were repaired. All other defects found have been referred to the line department for follow-up.	12/31/2022	Make repairs to remaining defects identified during the inspection.	12/31/2023
D - Line Capacitors (Inspections)	There were 359 capacitors found in need of repairs. Of the conditions found, approximately 28% involved capacitor fuses assemblies, 16% involved switch or switch operation, 14% involved hardware, and 42% miscellaneous matters associated to insulators, connections, lightning arresters, controls, ground connections not continuous, etc.	Controls were repaired or replaced. Other defects were reported to the line department for follow-up.	12/31/2022	Make repairs to remaining defects identified during the inspection.	12/31/2023

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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.	12/31/2022	None required.	N/A

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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
D - 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.	12/31/2022	None required.	N/A

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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 2022, 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.	12/31/2022	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)(2)(f), (B)(2)(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
D - Circuit Breakers and Reclosers	Of the maintenance performed on substation circuit breakers and reclosers during 2022, 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.	12/31/2022	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)(2)(f), (B)(2)(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 2020, 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.	12/31/2022	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)(2)(f), (B)(2)(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
D - Transformers	Of the maintenance performed on substation transformers during 2022, 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.	12/31/2022	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.	12/31/2022	None required.	N/A

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(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
D - 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.	12/31/2022	None required.	N/A
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.	12/31/2022	None required.	N/A
D - 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.	12/31/2022	None required.	N/A

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Line Inspections	A major portion of the conditions found involved structural components such as poles, cross arms, guying and hardware. Insulator problems (chipped, burned, broken) and conductor/shieldwire problems were the next largest group of conditions found. Relatively fewer conditions involved transmission corridor problems such as easement encroachments, landslides or washouts. Various miscellaneous conditions were also noted including, among other things, missing structure numbering signs, damaged 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.	12/31/2022	None required.	
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.	12/31/2022	None required.	

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10c. 4901:1-10-26(B)(2)(f), (B)(2)(f)(iii) Remedial activity

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
T - Protection and Control	Most of the relay systems were found to be in good operating condition and did not require any corrective maintenance. In some instances, the Protection and Control maintenance program identified relays and relay schemes that were inoperative or partially inoperative due to dirty contacts, coils, associated wiring, or other components. Relays that were found to be inaccurate or inoperative were recalibrated or in some cases replaced if the physical condition warranted. Relay schemes that failed to operate as designed due to component failure were restored to full functionality through a number of means including the cleaning of contacts, the adjustment of components, and the replacement of failed parts.	Any deficiencies identified were either rectified at the time of discovery or as soon as replacement parts were available. The problems that were identified and corrected helped to ensure the safety of our system, reduce outages to customers, and prevent possible damage to other power system equipment.	12/31/2022	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)(2)(f), (B)(2)(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
D - 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.	12/31/2022	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
T - Rights-of-Way Vegetation Control	Performed additional work on lines that were impacted by Derecho. This work took resources away from 2022 work-plan, thus not completing all the miles.	Work not completed shifted to 2023 work plan	1/27/2023	None required.	N/A

Notes:

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10d. 4901:1-10-26(B)(2)(f): Current Year Goals

Asset Type	Program Name	Program Goals	
Distribution	D - Poles (Inspection)	2023 projection = 70570 poles.	
Distribution	D - Poles (Replacement)	2023 projection = 1700 poles.	
Distribution	D - Poles (Reinforcement)	2023 projection = 0 poles.	
Distribution	D - Circuit and Line Inspections	2023 projection = 309 circuits.	
Distribution	D - Primary and Secondary Enclosures	2023 projection = 44400 structures.	
Distribution	D - Line Reclosers (Maintenance)	2023 projection = 466 reclosers.	
Distribution	D - Line Reclosers (New Vacuum Replacements)	2023 projection = 45 reclosers.	
Distribution	D-Network System - Vaults	2022 Projected Goal - 314 Vaults; (2023 Projection - 306 Vaults)	
Distribution	D-Network System - Manholes	2022 Projected Goal - 338 Manholes; (2023 Projection - 333 Manholes)	
Distribution	D-Network System - Protectors	2022 Projected Goal - 357 Protectors; (2023 Projection - 362 Protectors)	
Distribution	D-Network System - Transformers	2022 Projected Goal - 108 Transformers (Oil Sample); (2023 Projection - 116 Transformer Oil Sample) 2022 Projected Goal - 345 Transformers (Structural Integrity); (2023 Projection - 345 Transformer Structural Integrity)	
Distribution	D-Vegetation - Right of Way Control	2022 Projected Goal - 7859 Miles; (2023 Projection - 8599 Miles)	
Distribution	D - Line - Electronic reclosers (Inspections)	3675 reclosers, 7530 inspections	(2023 projection = 4265 reclosers, 8530 inspections)
Distribution	D - Line - NonElectronic reclosers (Inspections)	7052 reclosers, 7052 inspections	(2023 projection = 6863 reclosers, 6863 inspections)

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10d. 4901:1-10-26(B)(2)(f): Current Year Goals

Asset Type	Program Name	Program Goals
Distribution	D - Line Capacitors (Inspections)	3143 banks, 3143 inspections; adjusted to 3121 (2023 projection = 3105 banks, 3105 inspections)
Transmission Station	T - Station Inspections	2023 Goal: Inspect 240 T-station on a monthly basis.
Distribution Station	D - Station Inspections	2023 Goal = inspect 463 distribution stations on a monthly basis.
Transmission Station	T - Circuit Breakers and Reclosers	2023 Goal = 68 external inspections and maintenance; 2023 Goal = 93 internal inspections and maintenance.
Distribution Station	D - Circuit Breakers and Reclosers	2023 Goal = 5 external inspection and maintenance; 2023 Goal = 414 internal inspections and maintenance.
Transmission Station	T - Transformers	2023 Goal = 32 minor external inspections and maintenance; 2023 Goal = 0 major internal inspections and maintenance.
Distribution Station	D - Transformers	2023 Goal = 54 minor external inspections and maintenance; 2023 Goal = 1 major internal inspections and maintenance.
Transmission Station	T - Voltage Regulators	Based on experience and results of previous monthly station inspections, no transmission station feeder or bus regulator maintenance was planned in 2023 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.
Distribution Station	D - Voltage Regulators	Based on experience and results of previous monthly station inspections, no distribution station feeder or bus regulator maintenance was planned in 2023 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.
Transmission Station	T - Capacitor Banks	Because 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.

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10d. 4901:1-10-26(B)(2)(f): Current Year Goals

Asset Type	Program Name	Program Goals
Distribution Station	D - Capacitor Banks	Because 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.
Transmission	T - Line Inspections	2023 Goal = Inspect 100% of OPCO transmission lines.
Transmission	T - Line Maintenance	The 2023 goal is to schedule and perform transmission line maintenance, as necessary, based on issues identified during inspections.
Transmission Station	T - Protection and Control	2023 Goal = 528 T - discrete relay calibrations; 2023 Goal = 4,960 T - functional trip tests on relay trip paths.
Distribution Station	D - Protection and Control	2023 Goal = 718 D - discrete relay calibrations; 2023 Goal = 3,605 D - functional trip tests on relay trip paths.
Transmission	T - Right-of-Way Vegetation Control	2023 Goal = maintain 1,806 miles of transmission right-of-way

Notes:

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11. 4901:1-10-26(B)(2)(f), (B)(2)(iv): Prevention of overloading or excessive loading of facilities and equipment

Transmission or Distribution	Program Name	Program Goals
Distribution	Distribution Load Forecast and Capacity Review Process	The actual and projected thermal demands based on projected load growth and anticipated new loads are evaluated for substation equipment and circuit main feeders each year following the summer and winter peak seasons. This is the "Load Forecast Process". Overloads and projected overloads identified are further analyzed during the "Capacity Review Process" to see if simple remedies such as load balancing, power factor correction, load transfers, etc. can be done or if more involved improvement plans need to be developed. If overloads are anticipated to occur within the next peak load cycle, short-term remedies are implemented or contingency plans are prepared in the event that loading would reach certain levels. In addition, long-term improvement plans are developed for consideration in the next budgeting cycle.
Transmission	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.

Notes:

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12. 4901:1-10-26(B)(2)(f), (B)(2)(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
Distribution	Cole/8401, 8402, 8403, 8404	7/1/2016	This plan includes the addition of a 50 MVA transformer to relieve an overload and provide capacity for new load growth.	5/31/2023	N/A	
Distribution	Dublin F-2306 (99.60%), F-2310 (85.94%), F-2309 (78%), Davidson F-2201 (83.98%), F-2202 (81.05%), Hilliard F-2108 (92.36%), F-2102 (85.95%), F-2104 (72.28%)	11/1/2018	Install Hayden/F-1601, F-1602, F-1603	8/31/2023	Minor load transfers	
Distribution	Zuber/ 9105, 9106	6/5/2017	This plan includes the addition of a 50 MVA transformer to relieve an overload and provide capacity for new load growth.	12/31/2023	N/A	
Distribution	Mink Staton. F-309631 (158%)	7/1/2025	Adding two 50 MVA transformers and six feeders to add capacity to serve emerging loads.	11/28/2025	N/A	
Distribution	Etna Road Station F-7004, transformer T3	7/1/2023	Construct new Poth Station to replace obsolete and congested Etna Rd. Station. New staion will have larger transformers and two additional circuits.	12/18/2024	Minor load transfers	
Distribution	Jug Street Station Transformers T1 and T2	12/1/2023	Parallel the 2 Jug Street Station transformers and perform load transfers on the neighboring circuits	5/1/2023	N/A	
Distribution	Jug Street Station Transformers T1 and T2	5/31/2024	Construct new distribution station including 5 transformers and 5 circuits to serve INTEL	5/31/2024	Project DP22C0013 to parallel Jug Station transformers as well as load transfers and extending circuits to INTEL for intial service	

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12. 4901:1-10-26(B)(2)(f), (B)(2)(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
Distribution	White Rd/ new circuits: F-27305 & F-27306 Circuits to be relieved: F-27302 & F-27304	6/30/2021	The new circuits out of White Rd, F-27305 & F-27306 are going to relieve load off of the existing F-27302 & F-27304	4/1/2024	N/A	
Distribution	Fifth Ave/ Existing circuits: F-3201, F-3202, F-3203 & new circuits F-3204, F-3205 & F-3206	6/1/2019	Rebuild Fifth Ave station with two transformers and 3 new circuits in addition to the existing 3 circuits. The new circuits will relieve heavy loading in the area and improve reliability.	12/31/2023	Temporary load transfers to adjacent circuits have been made. Hess F-5410 have been upgraded to a high capacity feeder, F-3204 is already in service and has relieved load off of Hess F-5410 circuit. A skid capable of feeding two circuits has been installed for temporary use until the whole station is built out.	
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	12/22/2021
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	6/14/2021
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.	11/1/2024	N/A	N/A

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12. 4901:1-10-26(B)(2)(f), (B)(2)(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	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.	1/3/2025	N/A	N/A
Transmission	East Lima - Haviland 138 kV	9/25/2019	Replace terminal equipment at East Lima and Haviland.	12/1/2024	NA	N/A
Tranmission	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	7/14/2026	NA	N/A
Tranmission	Tidd - Wheeling Steel	10/16/2020	Replace risers at Tidd that are overloading	6/1/2025	N/A	9/1/2021
Tranmission	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	4/1/2025	NA	N/A
Transmission & Distribution	Elliot & Strouds Run	2/5/2021	Convert portions of s2224.5 and s2224.7 to baseline. Install a new 130 MVA transformer and associated protection at Elliot station (s2224.5). Perform work at Strouds Run station to retire transformer #1 and install a dedicated 138/13 KV distribution transformer (s2224.7).	11/21/2023	N/A	N/A
Transmission	S. Hicksville - Mark Center 69 kV	2/5/2021	Upgrade Relaying on Mark Center - South Hicksville 69 kV line. Replace Mark Center cap bank with a 7.7 MVAR unit.	6/1/2025	N/A	N/A

Report date: 3/29/2023

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12. 4901:1-10-26(B)(2)(f), (B)(2)(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
Transmssion	Ortels Corner - North Portsmouth 69kV	10/15/2021	Rebuild approximately 3.1 miles of the overloaded conductor on the existing Oertels Corner - North Portsmouth 69 kV line	5/1/2026	N/A	N/A
Transmssion	Sawmill - 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.	12/16/2025	N/A	N/A
Transmssion	Greenlawn - East Tiffin 69kV	12/18/2020	Rebuild 1.75 miles of the Greenlawn - East Tiffin line section of the Carrothers - Greenlawn 69kV circuit	6/1/2025	N/A	N/A
Transmssion	Canal	9/17/2021	Replace one 138 kV breaker at Canal station identified as overduty	5/24/2024	N/A	N/A
Transmssion	Bexley	12/17/2021	Replace two 40 kV breakers at Bexley station identified as overduty	6/1/2023	N/A	N/A
Transmssion	Hyatt	9/17/2021	Replace one 138 kV breaker at Hyatt station identified as overduty	5/24/2024	N/A	N/A
Transmssion	Kenny	9/17/2021	Replace two 138 kV breakers at Kenny station identified as overduty	9/19/2024	N/A	N/A
Transmssion	West End Fostoria	12/17/2021	Replace one 138 kV breaker at West End Fostoria station identified as overduty	9/1/2023	N/A	3/21/2022
Transmssion	South Side Lima	12/17/2021	Replace two 34.5 kV breakers at South Side Lima station identified as overduty	6/1/2023	N/A	12/29/2022

Report date: 3/29/2023

Ohio Power Company
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12. 4901:1-10-26(B)(2)(f), (B)(2)(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	McComb	9/23/2022	40 kV circuit breaker 'J' at McComb station was identified as being overduitted	7/31/2025	N/A	N/A
Transmission	Morgan Run	9/23/2022	Installation of 6 MVAR, 34.5kV cap bank at Morgan Run	6/1/2027	N/A	N/A
Transmission	Dillonvale - Glencoe 69 kV	9/23/2022	Rebuild the 1.8 mile single -circuit line between Willow Grove Switch and Summerhill; install 556 kcmil ACSR conductor	6/1/2027	N/A	N/A
Transmission	Otway & Pipestone	9/23/2022	7.7 MVAR, 69kV cap bank at Pipestone	10/22/2026	N/A	N/A

Notes:

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13. 4901:1-10-26(B)(2)(f), (B)(2)(f)(vi): Programs deleted

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

Notes:

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14. 4901:1-10-26(B)(2)(f), (B)(2)(f)(vi): Programs modified

Facility Type	Deleted Program Name
Distribution (1)	Distribution Poles
Distribution (2)	Line Reclosers
TS	None
TD	None
D	None

Notes: (1) The company modified the qualifying age of CCA treated poles to be eligible for the ten year inspection plan. The company also migrated from a geographically based inspection plan to a circuit based plan. Finally, the company adopted national standards associated with "priority reject poles" as proposed in PUCO Case No. 22-0367-EL-ESS filed in April, 2022.

(2) The company adopted a plan to use data, alarms, and proactive visits to monitor recloser battery health instead of inspecting all batteries every six months as proposed in PUCO Case No. 22-0367-EL-ESS filed in April, 2022.

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15. 4901:1-10-26(B)(2)(f), (B)(2)(f)(vi): Programs added

Facility Type	Deleted Program Name
Distribution (1)	LED Light Replacement
T	None
TS	None
TD	None
D	None

Notes: (1) Program designed to replace all existing roadway and area lighting with LED fixtures. This work is planned to be completed over a period of 5 years with work done by external contract crews.

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16. 4901:1-10-26(B)(3): 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
1/21/22	8:02 AM	EDU	FirstEnergy	Distribution	0030572	Other Utility
2/11/22	9:43 PM	EDU	AES Ohio	Distribution	7232302	Other Utility
4/13/22	7:50 AM	EDU	FirstEnergy	Distribution	0036476	Other Utility
7/23/22	2:36 PM	EDU	FirstEnergy	Distribution	0036476	Other Utility
10/30/22	10:01 AM	EDU	FirstEnergy	Distribution	0036476	Other Utility
11/25/22	8:10 AM	Municipality	City of Westerville	Distribution	0004202	Other Utility
12/23/22	12:57 PM	Cooperative	South Central Power Co.	Distribution	7400801	Other Utility

Notes:

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Summary: Report Electric Safety Standards Annual Report of Ohio Power
Company submitted for the year 2022. electronically filed by Michael J. Schuler on
behalf of Ohio Power Company.