

BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO

In the matter of the Annual Report of the)
Electric Service and Safety Standards,) Case No: 19 -0999 -EL-ESS
Pursuant to Rule 4901:1-10-26(B) of the Ohio)
Administrative Code)

ANNUAL REPORT OF
Duke Energy Ohio
submitted for the year 2018 .

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.

Donald E. Dixon

Signature

Donald E. Dixon

Printed Name

VP Midwest Operation

Title

3/20/19

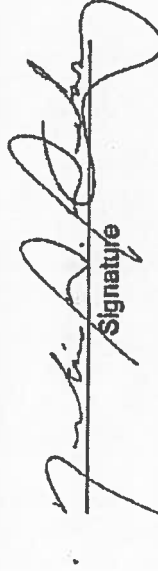
Date

BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO

In the matter of the Annual Report of the)
Electric Service and Safety Standards,) Case No: 19 -0889 -EL-ESS
Pursuant to Rule 4901:1-10-26(B) of the Ohio)
Administrative Code)

ANNUAL REPORT OF
Duke Energy Ohio
submitted for the year 2018 .

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

Justin D. Dickey
Printed Name

Thomas L. McDonald, Jr.
Title

3/28/2019
Date

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

Identification of project, program, or plan	Transmission or Distribution	Project description and goals	Portion of service territory affected	Characteristics of territory affected	Estimated cost	Initiation Date	Planned Completion Date
M170116	Transmission	Foster 138kV Circuit Breaker/Relay Replacement	North	Rural/Suburban	\$4,972,311	12/3/2018	12/31/2021
TOH1937	Transmission	F4683 Evendale-Pt Union Relay Replacement	North	Rural/Suburban	\$2,298,938	4/20/2018	12/31/2021
TOH1943	Transmission	F5282 SilverGr-Kenton Circuit Breaker/Relay Replacement	South	Rural/Suburban	\$1,624,699	3/9/2018	6/30/2021
TOH1968	Transmission	Beckjord 138kV/Bus 1_2 Reliability Upgrade	East	Rural/Suburban	\$4,253,367	5/25/2018	12/31/2021
TOH2189	Transmission	F1682_Install 138kV Reactors Miami Fort	South	Rural/Suburban	\$692,633	3/26/2018	6/1/2021

Notes:

Report date: 3/20/2019

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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	8,118	4,173	
Transmission	1,484	11	

Notes:

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

Transmission or Distribution	2018		2019		2020		2021		2022	
	Planned Costs	Actual Costs	Planned Costs	Projected Costs	Projected Costs	Projected Costs	Projected Costs	Projected Costs	Projected Costs	Projected Costs
Distribution	\$232,704,159	\$226,517,966	\$225,363,818	\$157,552,000	\$182,347,000	\$205,142,000				
Transmission	\$102,062,752	\$121,828,267	\$107,419,571	\$111,753,000	\$92,520,000	\$71,433,000				

Notes:

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

Entity making complaint	Date complaint received	Nature of complaint	Action taken to address complaint	Resolved (yes/no)	Date complaint resolved	If not resolved, why?
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Notes: There were no complaints in 2018

Report date: 3/20/2019

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

Standard number	Standard name	Date of violation	Risk factor	Severity factor	Penalty dollars	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
CIP-002-5.1, R1.	Cyber Security - BES Cyber System Categorization	3/11/2018	Pending	Pending		Confidential, non-public information			
CIP-006-6, R2.2.	Cyber Security - Physical Security of BES Cyber Systems	3/14/2018	Pending	Pending		Confidential, non-public information			
CIP-007-6, R4.1., R4.2.	Cyber Security - System Security Management	8/29/2018	Pending	Pending		Confidential, non-public information			

Notes:

Report date: 3/20/2019

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

Name of RTO violation	Violation description	Resolved (yes/no)	Date resolved	If not resolved, why?
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Notes: There were no RTO Violations in 2018

Report date: 3/20/2019

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

Event Start	Event End	Highest TLR during event	Firm load interrupted during event	Amount of load (MW) interrupted	Description of event
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Notes: There were no TLR Events in 2018

Report date: 3/20/2019

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

Rank	Description of facility causing congestion
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Notes: There were no congested facilities in 2018

Report date: 3/20/2019

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

Relationship between annual system improvement plan and RTO transmission expansion plan

Notes: No such relationship in 2018

Report date: 3/20/2019

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

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
X04C7993	Transmission	12/31/2019		Planned Completion date changed	Weather delayed completion, waiting to schedule customer outage.
X14C8959	Distribution	6/30/2019		Planned Completion date changed	Last step to retire circuit is waiting to be scheduled.
TOH1455	Transmission	12/31/2019		Planned Completion date changed	Storm response led to a shortage of qualified resources to complete the work within the given outage period. The outage had to be rescheduled.
TOH1488	Transmission	12/15/2019		Planned Completion date changed	This project is being worked alongside another project involving a generating station and had to plan around their outage schedule.
TOH1409	Transmission	6/30/2020		Planned Completion date changed	The associated circuits requiring outages changed timing based on operational priorities.
TOH1423	Transmission	12/31/2018	8/1/2018		
DOH1598	Distribution	3/1/2019			
TOH1504	Transmission	12/31/2019		Planned Completion date changed	System Operations changed outages from Spring to Fall of 2019.
TOH1848	Transmission	12/31/2019			
TOH1072	Transmission	12/31/2020			
TOH1605	Transmission	12/31/2020			

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

Identification of project, program, or plan	Transmission or Distribution	Planned Completion Date	Actual Completion Date	Identification of deviation from previous plan	Reason for deviation from previous plan
TOH1442	Transmission	12/31/2020	11/30/2018	Planned Completion date changed	The operational priorities for the grid drove when these outages could be scheduled by operations to be complete.
TOH1443	Transmission	12/31/2020			
DOH1651	Distribution	10/26/2021			
TOH1439	Transmission	12/31/2019		Planned Completion date changed	The operational priorities for the grid drove when these outages could be scheduled by operations to be complete.
TOH1928	Transmission	6/30/2020		Planned Completion date changed	The project planned completion date was requested to be changed to earlier by operations at the kickoff of the project. This project was requested to be complete prior to the original NISD by operations due to a number of additional projects that are required to be installed by the end of 2021.
TOH2041	Transmission	6/30/2020			

Notes:

Report date: 3/20/2019

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

Transmission or Distribution	Qualitative characterization of condition of system	Explanation of criteria used in making assessment for each characterization
Transmission	The condition of the Duke Energy Ohio electric system meets or exceeds industry standards and customer expectations for delivery of safe and reliable electric service. Duke Energy Ohio recognizes that the electric system infrastructure continues to age, and on-going preventive maintenance and corrective actions are necessary. Duke Energy Ohio continues to strive to provide safe and reliable electric service to our customers at a reasonable price. The quality of electric service and the condition of the electric system will parallel each other. Therefore, the quality of electric service can be used to measure the condition of the electric system.	Scheduled inspections
Distribution	The condition of the Duke Energy Ohio electric system meets or exceeds industry standards and customer expectations for delivery of safe and reliable electric service. Duke Energy Ohio recognizes that the electric system infrastructure continues to age, and on-going preventive maintenance and corrective actions are necessary. Duke Energy Ohio continues to strive to provide safe and reliable electric service to our customers at a reasonable price. The quality of electric service and the condition of the electric system will parallel each other. Therefore, the quality of electric service can be used to measure the condition of the electric system.	Scheduled inspections

Notes:

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

Transmission or Distribution	Availability of Service	Damage	Momentary Interruption	Out of Service	Quality of Service	Repair Service	Public Safety	Total Complaints
Distribution	81	4	50	0	135	1	3	274
Transmission	0	0	0	0	0	0	0	0

Notes:

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

Total transmission capital expenditures in 2018	\$121,828,267
Total Transmission investment as of year end	\$939,500,769
Transmission capital expenditures as % of total transmission investment	12.97%

Notes:

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

Total transmission maintenance expenditures in 2018	\$8,996,537
Total Transmission investment as of year end	\$939,500,769
Transmission maintenance expenditures as % of total transmission investment	0.96%

Notes:

Report date: 3/20/2019

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

Transmission capital budget category	2018 Budget	2018 Actual	% Variance	Explanation of variance if over 10%	2019 Budget
Major Cap and R&I	\$20,132,782	\$31,800,159	58.00%	Increased spend in retail and system capacity	\$37,660,868
Region Reliability & Integrity	\$70,689,730	\$69,948,660	-1.00%		\$61,047,555
Vegetation Management	\$2,768,618	\$4,554,709	65.00%	More vegetation line clearing than budgeted	\$4,380,608

Notes:

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

Transmission maintenance budget category	2018 Budget	2018 Actual	% Variance	Explanation of variance if over 10%	2019 Budget
Insp/Maint Prog	\$2,014,669	\$2,311,143	15.00%	Preventive/Corrective maintenance cycles	\$1,831,232
Project O&M	\$3,164,802	\$2,080,803	-34.00%	Below budget due to delays in Shaker Run-Lib Inst 69kV Ckt	\$1,315,988
Vegetation Management	\$2,673,500	\$3,577,999	34.00%	Non-NERC herbicide program	\$5,132,619

Notes:

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

Total distribution capital expenditures in 2018	\$226,517,966
Total distribution investment as of year end	\$2,692,790,384
Distribution capital expenditures as % of total distribution investment	8.41%

Notes:

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

Total distribution maintenance expenditures in 2018	\$48,252,763
Total distribution investment as of year end	\$2,692,790,384
Distribution maintenance expenditures as % of total distribution investment	1.79%

Notes:

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

Distribution capital budget category	2018 Budget	2018 Actual	% Variance	Explanation of variance if over 10%	2019 Budget
Major Cap and R&I	\$40,818,379	\$56,354,342	38.00%	Increase in capital spend associated with Circuit Segmentation/Self Optimizing Grid type work	\$36,597,302
Region Reliability & Integrity	\$128,810,419	\$107,681,999	-16.00%	2018 Actuals and 2019 Budget due to shift of spend to the Circuit Segmentation/Self Optimizing Grid Type work as well as shift of additional funding to support other Load type work in Major Cap and R&I category	\$126,487,726
Vegetation Management	\$5,487,087	\$5,547,791	1.00%		\$7,553,199

Notes:

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

<u>Distribution maintenance budget category</u>	<u>2018 Budget</u>	<u>2018 Actual</u>	<u>% Variance</u>	<u>Explanation of variance if over 10%</u>	<u>2019 Budget</u>
Insp/Maint Prog	\$6,731,948	\$6,481,615	-4.00%		\$6,001,833
Project O&M	\$9,572,834	\$7,376,223	-23.00%	Revised guidance around charging associated with standing order work associated with capital projects	\$6,419,938
Region Reliability & Integrity	\$1,610,872	\$1,737,895	8.00%		\$2,393,622
Vegetation Management	\$21,835,484	\$14,733,642	-33.00%	\$10M Deferral of costs in 2018 offset by increased cost per mile	\$21,491,286

Notes:

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

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
Distribution	Structures and Improvements	361	65.00	14.00	51.00	78.46%	Case No. 12-1683-EL-AIR
Distribution	Station Equipment	362	60.00	13.00	47.00	78.33%	Case No. 12-1683-EL-AIR
Distribution	Major Equipment	3622	60.00	18.00	42.00	70.00%	Case No. 12-1683-EL-AIR
Distribution	Distribution Station Equipment	3635	20.00	0.00	20.00	100.00%	Case No. 12-1683-EL-AIR
Distribution	Poles, Towers and Fixtures	364	50.00	13.00	37.00	74.00%	Case No. 12-1683-EL-AIR
Distribution	Overhead Conductors and Devices	365	50.00	6.00	44.00	88.00%	Case No. 12-1683-EL-AIR
Distribution	Underground Conduit	366	65.00	13.00	52.00	80.00%	Case No. 12-1683-EL-AIR
Distribution	Underground Conduit and Devices	367	58.00	10.00	48.00	82.76%	Case No. 12-1683-EL-AIR
Distribution	Line Transformers	368/3681	42.00	15.00	27.00	64.29%	Case No. 12-1683-EL-AIR
Distribution	Customer Transformer Install	3682	45.00	34.00	11.00	24.44%	Case No. 12-1683-EL-AIR
Distribution	Services - Underground	3691	65.00	26.00	39.00	60.00%	Case No. 12-1683-EL-AIR
Distribution	Services - Overhead	3692	43.00	11.00	32.00	74.42%	Case No. 12-1683-EL-AIR
Distribution	Services - Multi Occupancy	3693	0.00	0.00	0.00	0.00%	Case No. 12-1683-EL-AIR
Distribution	Meters / Leased Meters	370/3701	19.00	19.00	0.00	0.00%	Case No. 12-1683-EL-AIR
Distribution	Meters - Utility of Future (Smart)	3702	15.00	4.00	11.00	73.33%	Case No. 12-1683-EL-AIR
Distribution	Company Owned Outdoor Lighting	3710/3712	15.00	15.00	0.00	0.00%	Case No. 12-1683-EL-AIR
Distribution	Leased Property on Customer Premises	372	25.00	25.00	0.00	0.00%	Case No. 12-1683-EL-AIR

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

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
Distribution	Street Lighting - Overhead	3731	28.00	21.00	7.00	25.00%	Case No. 12-1683-EL-AIR
Distribution	Street Lighting - Boulevard	3732	45.00	14.00	31.00	68.89%	Case No. 12-1683-EL-AIR
Distribution	Street Lighting - Customer Private Outdoor	3733	30.00	14.00	16.00	53.33%	Case No. 12-1683-EL-AIR
Transmission	Structures and Improvements	352	60.00	13.00	47.00	78.33%	Case No. 08-709-EL-AIR
Transmission	Structures and Improvements - CD/CCD	352	60.00	21.00	39.00	65.00%	Case No. 08-709-EL-AIR
Transmission	Structures and Improvements - CGE - Ky	352	60.00	29.00	31.00	51.67%	Case No. 08-709-EL-AIR
Transmission	Station Equipment	3530	53.00	9.00	44.00	83.02%	Case No. 08-709-EL-AIR
Transmission	Station Equipment - Major Equipment	3532	55.00	16.00	39.00	70.91%	Case No. 08-709-EL-AIR
Transmission	Station Equipment - RTU	3535	20.00	0.00	20.00	100.00%	Case No. 08-709-EL-AIR
Transmission	Towers & Fixtures	354	80.00	83.00	-3.00	-3.75%	Case No. 08-709-EL-AIR
Transmission	Towers & Fixtures - CD/CCD	354	80.00	0.00	80.00	100.00%	Case No. 08-709-EL-AIR
Transmission	Towers & Fixtures - CGE - Ky	354	80.00	0.00	80.00	100.00%	Case No. 08-709-EL-AIR
Transmission	Poles and Fixtures	355	55.00	2.00	53.00	96.36%	Case No. 08-709-EL-AIR
Transmission	Poles and Fixtures - CD/CCD	355	55.00	0.00	55.00	100.00%	Case No. 08-709-EL-AIR
Transmission	Poles and Fixtures - CGE - Ky	355	55.00	1.00	54.00	98.18%	Case No. 08-709-EL-AIR
Transmission	Overhead Conductors and Devices	356	62.00	17.00	45.00	72.58%	Case No. 08-709-EL-AIR

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

Transmission or Distribution	Asset type	FERC account/ subaccount	Total depreciable life of asset	Total depreciated life of asset	Total remaining life of asset	Percent of remaining life of asset	How age was determined
Transmission	Overhead Conductors and Devices - CD/CCD	356	62.00	0.00	62.00	100.00%	Case No. 08-709-EL-AIR
Transmission	Overhead Conductors and Devices - CGE - Ky	356	62.00	4.00	58.00	93.55%	Case No. 08-709-EL-AIR
Transmission	Underground Conduit	357	65.00	29.00	36.00	55.38%	Case No. 08-709-EL-AIR
Transmission	Underground Conduit and Devices	358	45.00	13.00	32.00	71.11%	Case No. 08-709-EL-AIR

Notes:

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

Asset type	Program Name	Program Goals	Goals achieved?
Distribution	Capacitor Maintenance	Non-automated/non-communicating capacitors shall be visually inspected each year. Automated/communicating capacitors shall be monitored remotely using communications/alerts.	YES
Distribution	Line recloser inspection	Non-electronic reclosers shall be visually inspected each year. Electronic reclosers shall be monitored remotely using communications/alerts.	YES
Distribution	URD Cable Replacement	Complete budgeted cable replacements	YES
Distribution	Distribution Pole Groundline Inspection and Treatment	Inspect all distribution poles every 10 years and treat as needed. All Ohio distribution poles will be inspected within ten years.	YES
Distribution	Inspection of poles, towers, conductors, and pad mount transformers	Inspect distribution lines every 5 years	YES
Distribution	Distribution vegetation management	Achieve 5-year cycle for vegetation line clearing on distribution circuits. Complete an average of 20% of target circuit miles per year.	NO
Distribution Substation	Inspection of Distribution Substations	Inspect distribution substations monthly	NO
Transmission Substation	Inspection of transmission substations	Inspect transmission substations monthly	YES
Transmission	Transmission pole groundline inspection and treatment	Inspect all transmission poles every 10 years and treat as needed	YES
Transmission	Inspection of poles, towers, conductors, and pad mount transformers	Inspect transmission lines each year	YES
Transmission	Transmission vegetation management	Achieve 6-year cycle for vegetation line clearing on transmission circuits. Complete an average of 16% of target circuit miles per year.	YES

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

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
Capacitor Maintenance	Automated capacitors have health check, non-electronic capacitors have "walking" inspection	In 2018, all 2,176 capacitors were inspected (314 non-electronic, 1,862 electronic) - 100% of capacitors	As a result of 2018 capacitor inspections, 482 follow up work orders were generated. 405 of those 482 work orders are complete as of 3/12/2019.
Line recloser inspection (Distribution)	Electronic reclosers monitored remotely, Non-electronic reclosers have (walking) inspections	In 2018, all 1,199 reclosers were inspected (600 non-electronic reclosers, 599 electronic reclosers) - 100% of reclosers	As a result of 2018 recloser inspections, 145 follow up work orders were generated. 123 of those 145 work orders are complete as of 3/12/2019.
URD Cable Replacement (Distribution)	During 2018, URD cable replacements continued as needed	100% of needed projects were scheduled. 551,152 feet of new, replacement URD cable was installed in 2018.	none
Distribution Pole Groundline Inspection and Treatment	(walking) inspection of each pole	In 2018, 26,756 Duke owned wood poles were inspected. 10.49% of Duke Energy Ohio owned distribution wood poles received inspections.	As a result of 2018 wood pole inspections, 1,194 follow up work orders were opened. 776 of those 1,194 work orders are complete as of 3/13/2019.
Inspection of poles, towers, conductors, and pad mount transformers (Distribution)	(walking and driving) inspection along distribution circuits	During 2018, the distribution inspection program for Ohio completed inspection of 112 distribution circuits	As a result of 2018 distribution circuit inspections, 748 follow up work orders were opened. 366 of those 748 work orders are complete as of 3/13/2019.

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

Program Name	Explanation of how goals were achieved	Quantitative description of goal achieved	Summary of Findings
Inspection of Transmission substations	(walking) inspection of each substation	204 monthly inspections were performed on Duke Energy Ohio's 17 transmission substations in 2018. 1 additional transmission substation was put into service August 23rd, and had 5 inspections performed.	As a result of the 2018 transmission substation inspections, 193 follow up work orders were opened. 158 of those 193 work orders are complete as of 2/14/2019.
Inspection of poles, towers, and conductors (Transmission)	inspection flights along transmission lines	During 2018, the transmission circuit inspection program for Ohio completed inspection of 135 transmission circuits - 100% of circuits with overhead mileage.	As a result of 2018 inspection flights, 24 follow up items were recorded from the inspections, and all of them remain to be completed.
Transmission pole groundline inspection and treatment	(walking) inspection of each pole	In 2018, 3,805 transmission designated wood poles were inspected.	As a result of 2018 wood pole inspections, 90 follow up work orders were opened. 0 of the 90 work orders have been completed.
Transmission vegetation management	(walking and driving) vegetation clearing along transmission circuits	In 2018, total line clearing maintenance was completed on 264 transmission circuit miles. 17.8% of Duke Energy Ohio transmission circuit miles were cleared in 2018.	none

Notes:

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

Program Name	Cause(s) for not achieving goals	Description of level of completion	Quantitative description of level of completion	Summary of Findings
Distribution vegetation management	Unable to complete work plan due to current constricted labor market for qualified resources.	19.5% of Duke Energy Ohio distribution circuit miles were cleared in 2018, just short of the 20% goal.	In 2018, total line clearing maintenance was completed on 1,584.3 distribution circuit miles.	none
Distribution Substation	Unable to complete the 5 missed inspections in allotted time due to combined factors holidays and weather at the due dates.	2,604 inspections were completed for all 217 distribution substations in 2018. 5 of these inspections missed the 40 day inspection requirement, ranging from 1 to 5 days over the 40 day requirement.	100% of inspections were completed, but 99.81% completed within 40 day requirement	As a result of 2018 distribution substation inspections, 1,603 follow up work orders were generated. 1,433 of those 1,603 work orders are complete as of 2/14/2019.

Notes:

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

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
Capacitor Maintenance	As a result of 2018 capacitor inspections, 482 follow up work orders were generated	405 of those 482 work orders are complete as of 3/12/2019		77 work orders remain to be completed from 2018 inspections. 7 work orders remain from the 2017 inspections.	12/31/2019
Line recloser inspection (Distribution)	As a result of 2018 recloser inspections, 145 follow up work orders were generated	123 of those 145 work orders are complete as of 3/12/2019		22 work orders remain to be completed. 1 work order remains from 2017 inspections. 1 work order remains from 2016 inspections.	12/31/2019
URD Cable Replacement	none	none		none	none
Distribution Pole Groundline Inspection and Treatment	As a result of 2018 wood pole inspections, 1,194 follow up work orders were generated	776 of those 1,194 work orders are complete as of 3/13/2019		418 work orders remain to be completed from the 2018 inspections. 1 work order remains from the 2017 inspections.	12/31/2019
Distribution Inspection of poles, towers, conductors, and pad mount transformers	As a result of 2018 distribution circuit inspections, 748 follow up work orders were generated	366 of those 748 work orders are complete as of 3/13/2019		382 work orders remain to be completed from the 2018 inspections. 16 work orders remain from the 2017 inspections.	12/31/2019
Distribution vegetation management	Unable to complete work plan due to current constricted labor market for qualified resources.	none		Discussions are ongoing with commission for a reliability based program.	none
Inspection of Distribution Substations	As a result of 2018 distribution substation inspections, 1,603 follow up work orders were generated	1,433 of those 1,603 work orders are complete as of 2/14/2019.		170 work orders remain to be completed from the 2018 inspections. 53 Work orders remain open from the 2017 inspections. 40 Work orders remain from inspections prior to 2017.	12/31/2019

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

Program Name	Program finding(s) resulting in remedial action	Remedial activity performed	Completion date	Remedial activity yet to be performed	Estimated completion date
Inspection of Transmission substations	As a result of 2018 transmission substation inspections, 193 follow up work orders were generated	158 of those 193 work orders are complete as of 2/14/2019.		35 work orders remain to be completed from the 2018 inspections. 17 Work orders remain open from the 2017 inspections. 8 Work orders remain from inspections prior to 2017.	12/31/2019
Transmission pole groundline inspection and treatment	As a result of 2018 wood pole inspections, 90 follow up work orders were generated	0 of the 90 work orders are complete as of 3/11/19.		90 work orders remain to be completed from 2018 inspections. 197 work orders remain from the 2017 inspections. 117 work orders remain from inspections prior to 2017.	12/31/2020
Transmission Inspection of poles, towers, conductors, and pad mount transformers	As a result of 2018 inspection flights, 24 follow up items were recorded	0 of the 24 follow up items are complete as of 3/18/19		24 follow up items remain to be completed from 2018 inspections. 74 work orders remain from the 2017 inspections. 47 work orders remain from inspections prior to 2017.	12/31/2020
Transmission vegetation management	none	none		none	none

Notes:

Report date: 3/20/2019

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

Asset Type	Program Name	Program Goals
Distribution	Capacitor Maintenance	Non-automated/non-communicating capacitors shall be visually inspected each year. Automated/communicating capacitors shall be monitored remotely. 100% of capacitors planned to be inspected/monitored in 2019.
Distribution	Line recloser inspection	Non-electronic reclosers shall be visually inspected each year. Electronic reclosers shall be monitored remotely. 100% of reclosers planned to be inspected/monitored in 2019.
Distribution	URD Cable Replacement	Complete budgeted cable replacements
Distribution	Distribution Pole Groundline Inspection and Treatment	Inspect all distribution poles every 10 years and treat as needed. All Ohio distribution poles will be inspected within ten years. 27,208 poles planned for Distribution Pole Groundline Inspection and Treatment in 2019.
Distribution	Inspection of poles, towers, conductors, and pad mount transformers	Inspect distribution lines every 5 years. 135 circuits planned for inspection of poles, towers, conductors and pad mount transformers in 2019.
Distribution	Distribution vegetation management	Achieve 5-year cycle for vegetation line clearing on distribution circuits. Complete an average of 20% of target circuit miles per year.
Distribution Substation	Inspection of Distribution Substations	Inspect distribution substations monthly
Transmission Substation	Inspection of transmission substations	Inspect transmission substations monthly
Transmission	Transmission pole groundline inspection and treatment	Inspect all transmission poles every 10 years and treat as needed.
Transmission	Inspection of poles, towers, conductors, and pad mount transformers	Inspect transmission lines each year
Transmission	Transmission vegetation management	Achieve 6-year cycle for vegetation line clearing on transmission circuits. Complete an average of 16% of target circuit miles per year.

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

Transmission or Distribution	Program Name	Program Goals
Distribution	DOH1108	E Provident Dr New Ckts - DOH1108
Distribution	DOH1284	Oakley P_Reco Ckt 40 - DOH1284
Distribution	DOH1595	Hyde Park Relief - DOH1595
Distribution	DOH1653	Rem 53-42 Rbld Reco Humphrey Rd - DOH1653
Distribution	DOH1778	Rochelle 43_48 Reco MLK Blvd - DOH1778
Distribution	DOH1782	Seward 44 Reco DOH1782
Distribution	DOH1879	Fairfax 43 Ext_Rel Oakley 829 SCER DOH1879
Distribution	DOH1899	Felicity A Conv Rel 4kV DOH1899
Distribution	DOH1909	Amanda Inst 12 kV Feeders - DOH1909
Distribution	DOH1945	Oakley 52 853 Rcnfgr DOH1945
Distribution	DOH1976	Felicity 41 Conv Vern Hill Rd DOH1976
Distribution	DOH2035	Canal 41 42 Reco DOH2035
Distribution	DOH2181	Allen 43_Instl 12kV Fdr DOH2181
Distribution	DOH2182	Hensley 42 Instl Fdr DOH2182
Distribution	DOH2196	Union 42 Reco and Ext DOH2196
Distribution	DOH2273	Seward 46 Cap Inst DOH2273
Distribution	DOH2414	Bethany 42 Reco DOH2414
Distribution	DOH2478	Port Union 41 Ext DOH2478
Distribution	DOH2488	Franklin 41 Reco DOH2488

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

Transmission or Distribution	Program Name	Program Goals
Distribution	DOH2548	Trade Port 43 44 Inst DOH2548
Distribution	DOH2589	Twenty Mile 42 Ext Reco DOH2589
Distribution	DOH2612	Summerside 55 Auto Temp Ext DOH2612
Transmission	AMOH1276	Fdr 3861 Ext - AMOH1276
Transmission	TOH1504	Ebenezer_138kV Rcnfgr - TOH1504
Transmission	X04C7993	F868-Reconductor Fairfax-Senco - X04C7993

Notes:

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

Transmission or Distribution	Sub/Circuit name	Date overloading identified	Plan to remedy overloading	Estimated completion date	Actions taken to remedy overloading	Actual completion date
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Notes: Duke Energy had no overloading events in 2018.

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

Facility Type	Deleted Program Name
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Notes: Duke Energy did not delete any inspection, maintenance, repair, or replacement programs during 2018.

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

Facility Type	Deleted Program Name
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Notes: Duke Energy did not modify any inspection, maintenance, repair, or replacement programs during 2018.

**Duke Energy Ohio
Rule 26 Report for 2018**

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

Facility Type	Deleted Program Name
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Notes: Duke Energy did not add any inspection, maintenance, repair, or replacement programs during 2018.

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

Date of Interruption	Time of Interruption	Type of entity causing interruption	Name of entity causing interruption	Impact on Transmission or Distribution	Sub/Circuit Interrupted	Cause of interruption
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Notes: Duke Energy Ohio had no customer service interruptions that were due solely to the actions or inactions of another electric utility, regional transmission entity, and/or a competitive retail electric supplier in 2018.

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Summary: Annual Report Annual Report of Duke Energy Ohio, Inc., Pursuant to O.A.C. Rule 4901:1-10-26(B) electronically filed by Dianne Kuhnell on behalf of Rocco D'Ascenzo and Duke Energy Ohio, Inc. and Watts, Elizabeth H.