

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 17 - 890 -EL-ESS
Pursuant to Rule 4901:1-10-10(C))

Pursuant to Rule 4901:1-10-10(C) of the Ohio Administrative Code,
Ohio Power Company
hereby submits the attached annual report for the year 2016

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


Signature

SELWYN DIAS
Printed Name

V.P. Distribution Ops.
Title

3/31/17
Date

Ohio Power Company
Rule 10 Report for 2016

1. 4901:1-10-10(C)(1): CAIDI (Customer Average Interruption Duration Index)

<u>Performance Standard</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>
150.00	143.45	146.96

2. 4901:1-10-10(C)(1): SAIFI (System Average Interruption Frequency Index)

<u>Performance Standard</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>
1.20	1.08	1.29

3. 4901:1-10-10(C)(1): Supporting Data

Customers <u>Served</u>	CI* <u>After Exclusions</u>	CI <u>Before Exclusions</u>	CMI* <u>After Exclusions</u>	CMI <u>Before Exclusions</u>
1,461,766	1,577,745	1,889,090	226,322,842	277,611,636

Notes:

*CI = Customer Interruptions
CMI = Customer Minutes Interrupted

**Ohio Power Company
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4. 4901:1-10-10(C)(2): Major Event Outages

Date	Description	CI	CMI	CAIDI	SAIFI
4/2/2016	Major Event Day - Storms	35,667	11,600,358	325.24	0.02
6/23/2016	Major Event Day - Storms	45,800	10,670,907	232.99	0.03
Totals:		81,467	22,271,265		

Notes:

Ohio Power Company
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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
1/15/2016	871: East Zanesville - Shinnick Street	8:48 PM	69	WEATHER - LIGHTNING/TSTORM	191,522
1/21/2016	2438: New Liberty - North Findlay	10:00 AM	34	SCHEDULED COMPANY	13,650
2/1/2016	21879: Lick - Ross	8:25 PM	69	EQUIPMENT FAILURE	208,210
2/16/2016	1044: E. Cambridge - Smyrna	8:00 AM	34	EQUIPMENT FAILURE	392,168
2/16/2016	867: East Logan - New Lexington	1:04 PM	69	WEATHER - ICE/SNOW	118,218
2/19/2016	918: Kalida - North Delphos	12:37 PM	69	EQUIP-LINE-STATIC WIRE	90,645
2/19/2016	Fremont Center Mobile	8:32 PM	69	ERROR - FIELD	538,164
2/24/2016	2944: East Lancaster - Ralston - West Lancaster	4:49 PM	69	VEGETATION FALL-IN (OUTSIDE R/W)	1,150,348
2/28/2016	10098: Hocking - Poston	3:18 AM	138	SCHEDULED COMPANY	230,929
3/27/2016	968: Shinnick Street - Zanesville	6:17 PM	69	RELAY MISOPERATION	733,087
3/27/2016	4503: Forest - Upper Sandusky	11:50 PM	69	EQUIPMENT FAILURE	835,825
4/3/2016	22523: Firebrick - Lick	9:22 AM	69	WEATHER - UNKNOWN	69,168
4/10/2016	4503: Forest - Upper Sandusky	11:35 AM	69	WEATHER - LIGHTNING/TSTORM	247,512
4/15/2016	2944: East Lancaster - Ralston - West Lancaster	9:30 AM	69	TREE OUT OF ROW	192,500
4/15/2016	974: South Rokeby - West Malta	11:00 PM	69	SCHEDULED COMPANY	137,714

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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
4/16/2016	974: South Rokeby - West Malta	1:29 AM	69	SCHEDULED COMPANY	119,104
4/19/2016	20237: Amlin - Hyatt	11:49 AM	138	UNKNOWN (NON WEATHER)	175,222
4/21/2016	11622: Mill Creek - Wolf Creek	8:20 PM	23	UNKNOWN (NON WEATHER)	260
4/22/2016	1063: Morrical Sw. - North Woodcock	6:41 AM	34	EQUIP-LINE-STATIC-WIRE	103,815
4/25/2016	785: Seaman - Stuart	5:30 AM	69	SCHEDULED COMPANY	170,094
4/25/2016	950: North Delphos - West Molton	11:13 AM	69	VEHICLE ACCIDENT (NON AEP)	30,241
4/26/2016	974: South Rokeby - West Malta	5:07 PM	69	ERROR - FIELD	289,921
4/30/2016	839: Center Street - Pleasant Street	2:42 PM	69	RELAY MIS-OPERATION	94,858
4/30/2016	2271: Adams - Rarden	9:40 PM	69	EQUIP-LINE-CROSSARM	102,920
5/2/2016	OTC 19838: Azalea - Dennison - Desert Road Sw	5:28 AM	69	TREE REMOVAL (NON-AEP)	194,565
5/3/2016	18197: Cornerstone - Millbrook Park	10:34 PM	69	VEHICLE ACCIDENT (NON-AEP)	15,522
5/8/2016	3421: North Baltimore - Portage	2:14 AM	34	EQUIPMENT FAILURE	31,200
5/14/2016	947: North Delphos - Van Wert	10:52 AM	69	VEHICLE ACCIDENT (NON-AEP)	581,086
5/19/2016	1001: George Washington - West Bellaire	2:11 AM	69	VEGETATION FALL-IN (OUTSIDE R/W)	605,090
5/20/2016	OTC 22397: North Bellville - Ohio Central	1:52 PM	138	VEGETATION FALL-IN (OUTSIDE R/W)	268,588

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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
5/28/2016	5422: Central Portsmouth - North Portsmouth	9:59 PM	69	UNKNOWN	1,020,680
5/29/2016	5422: Central Portsmouth - North Portsmouth	9:14 AM	69	EQUIP-LINE-CROSSARM	971,524
5/31/2016	10098: Hocking - Poston	11:27 AM	138	TREE INSIDE ROW	184,152
6/1/2016	17577: Derwent - Senecaville	9:21 AM	69	SCHEDULED COMPANY	35,234
6/4/2016	864: East End Fostoria - Riverview	8:33 PM	69	EQUIPMENT FAILURE	36,480
6/11/2016	2282: Kirk - West Granville	4:59 AM	69	SCHEDULED COMPANY	1,097,743
6/24/2016	932: Mount Sterling - South Fultonham	6:05 PM	69	EQUIP-LINE-CONDUCTOR	495,396
6/24/2016	854: Dillonvale - Glencoe	9:28 PM	69	EQUIP-STATION-SWITCH, OH	419,950
7/12/2016	887: Gambrinus Road - Torrey	1:02 PM	69	ERROR - FIELD	90,390
7/15/2016	2261: Poston - Trimble	5:49 PM	69	VEGETATION FALL-IN (OUTSIDE R/W)	1,766,187
7/18/2016	930: Minerva - Wagenhals	7:29 AM	69	WEATHER - LIGHTNING/TSTORM	78,065
7/24/2016	977: Speidel - Summerfield	9:14 PM	69	WEATHER - LIGHTNING/TSTORM	837,952
7/25/2016	21879: Lick - Ross	6:53 PM	69	EQUIP-STATION-SWITCH, OH	35,360
7/28/2016	2121: East Amsterdam - Miller	10:54 PM	69	SCHEDULED COMPANY	191,420
7/29/2016	2121: East Amsterdam - Miller	5:49 AM	69	SCHEDULED COMPANY	30,219

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Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
7/29/2016	864: East End Fostoria - Riverview	5:24 PM	69	EQUIP-LINE-INSULATOR	14,200
8/3/2016	4503: Forest - Upper Sandusky	5:56 PM	69	EQUIP-STATION-BREAKER	312,091
8/6/2016	936: Muskingum River - South Rokeby Sw.	7:48 AM	69	RELAY MIS-OPERATION	290,929
8/7/2016	25319: Kammer - Powhatan	6:00 AM	69	SCHEDULED COMPANY	34,782
8/9/2016	2271: Adams - Rarden	7:36 PM	69	WEATHER - UNKNOWN	13,732
8/11/2016	25319: Kammer - Powhatan	12:15 PM	69	INFORMATION NEEDED	29,172
8/19/2016	21517: Cherry Avenue - Sunnyside	7:31 AM	69	EQUIPMENT FAILURE	598
8/21/2016	1099: Arlington - Dunkirk	9:12 PM	34	UNKNOWN (NON WEATHER)	162,840
8/24/2016	4041: DeCliff - Harpster	4:13 PM	34	CUSTOMER/OTHER UTILITY	145,782
8/24/2016	10277: Rockford (DP&L) - West Van Wert	6:33 PM	34	WEATHER - TORNADO	735,954
8/25/2016	10277: Rockford (DP&L) - West Van Wert	5:08 PM	34	SCHEDULED COMPANY	3,294
8/27/2016	2267: Pomeroy - Rutland	3:27 AM	34	TREE OUT OF ROW	128,661
8/27/2016	999: Brues - Martin's Ferry	2:41 PM	69	TREE OUT OF ROW	53,580
8/27/2016	1085: South Coshocton - South Millersburg	6:52 PM	34	TREE OUT OF ROW	146,772
8/28/2016	1085: South Coshocton - South Millersburg	4:37 AM	34	EQUIPMENT FAILURE	489

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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
8/28/2016	15458: Lexington - North Bellville - North Liberty	11:57 PM	69	INFORMATION NEEDED	193,439
8/29/2016	15458: Lexington - North Bellville - North Liberty	5:02 PM	69	INFORMATION NEEDED	21,392
9/1/2016	859: Dunkirk (Op) - Forest	3:19 AM	69	Vehicle Accident (non AEP)	187,110
9/8/2016	2121: East Amsterdam - Miller	10:57 PM	69	SCHEDULED COMPANY	579,373
9/9/2016	932: Mount Sterling - South Fultonham & OTC 940: New	12:53 AM	69	EQUIP-STATION-INSULATOR	571,216
9/9/2016	2944: East Lancaster - Ralston - West Lancaster	7:36 AM	69	RELAY MIS-OPERATION	1,937,060
9/9/2016	3421: North Baltimore - Portage	9:08 AM	34	SCHEDULED COMPANY	141,015
9/9/2016	2944: East Lancaster - Ralston - West Lancaster	7:13 PM	69	TREE OUT OF ROW	7,128
9/13/2016	1085: South Coshocton - South Millersburg	10:06 AM	34	ANIMAL - BIRD	156,463
9/16/2016	777: Muskingum - Natrium	5:21 PM	138	INFORMATION NEEDED	54,626
9/16/2016	2267: Pomeroy - Rutland	6:33 PM	34	INFORMATION NEEDED	260,912
9/17/2016	2430: Newcomerstown - North Coshocton	5:43 AM	34	TREE OUT OF ROW	218,097
9/18/2016	16397: Brookside - Sawmill	2:20 PM	138	VEGETATION GROW-IN	317,588
9/20/2016	1085: South Coshocton - South Millersburg	3:59 PM	34	OTHER UTILITY	232,430
9/23/2016	15558: Astor - Groves - Shannon	3:10 PM	138	VANDALISM	671,000

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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
9/30/2016	OTC 1100: East Sparta - Malvern	3:21 PM	23	TREE OUT OF ROW	315,768
10/10/2016	10098: Hocking - Poston	3:07 PM	138	SCHEDULED COMPANY	54,405
10/14/2016	2267: Pomeroy - Rutland	3:00 AM	34	SCHEDULED COMPANY	614,790
10/17/2016	729: Muskingum River - West Cambridge	4:36 PM	138	EQUIP-LINE-INSULATOR	177,546
10/20/2016	11619: Mill Creek - Williamstown	4:01 PM	23	TREE OUT OF ROW	50,813
10/31/2016	785: Seaman - Stuart	4:01 AM	69	SCHEDULED COMPANY	627,435
11/2/2016	762: Wagenhals - West Canton	9:03 AM	138	ANIMAL BUS	461,700
11/9/2016	21879: Lick - Ross	5:26 AM	69	SCHEDULED COMPANY	116,374
11/10/2016	3681: Clark - Strouds Run	11:39 AM	69	ERROR - FIELD	209,322
11/18/2016	896: Glencoe - Robyville	9:00 AM	69	SCHEDULED COMPANY	65,527
11/19/2016	1085: South Coshocton - South Millersburg	6:00 AM	34	SCHEDULED COMPANY	76,254
11/28/2016	I&M 24558: College Corner - Randolph	2:18 PM	138	EQUIPMENT FAILURE	355,640
12/2/2016	13197: Berlin - West Millersburg	7:58 PM	69	VEHICLE ACCIDENT (NON AEP)	221,089
12/15/2016	1044: East Cambridge - Smyrna	12:10 AM	34	EQUIPMENT FAILURE	843,670
12/15/2016	948: Northeast Canton - Oakwood Road	2:40 AM	69	EQUIPMENT FAILURE	1,286,724

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5a. 4901:1-10-10(C)(2): Transmission Outages

Outage Start Date	Transmission Circuit Impacted	Outage Start Time	Circuit kV	Outage Cause	Outage Length (minutes)
12/23/2016	2762: Clinton - Karl	4:32 PM	138	EQUIPMENT FAILURE	308,872
12/26/2016	950: North Delphos - West Moulton	8:26 AM	69	EQUIP-LINE-STATIC WIRE	154,888
12/27/2016	OTC 19838: Azalea - Dennison - Desert Road Sw	8:30 AM	69	EQUIP-LINE-CROSSARM	232,089

Notes: Note (1) Transmission outages reported in this table are from the Distribution Reporting System. This data reflects distribution customers affected by Transmission Outages. Transmission outages reported in Rule 27 (C) are from the Transmission Outage Reporting System. That system is based on Transmission circuits and does not reflect Distribution circuits. As such, the Distribution Outage Reporting System does reflect Transmission circuit information. Therefore data variances will exist between data shown in this table and that of Table 6c and in that of Rule 27(C).

Note (2) Excludes Major Event Outages

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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
1/15/2016	2,227	191,522	3	7408401	1,129	97,094
1/15/2016	2,227	191,522	3	7408402	1,048	90,128
1/15/2016	2,227	191,522	3	7408403	50	4,300
1/21/2016	91	13,650	1	7216103	91	13,650
2/1/2016	1,771	208,210	2	0024201	51	11,424
2/1/2016	1,771	208,210	2	0024204	1,720	196,786
2/16/2016	1,316	392,168	1	7515001	1,316	392,168
2/16/2016	1,159	118,218	1	7401203	1,159	118,218
2/19/2016	1,037	90,645	3	7209301	487	42,369
2/19/2016	1,037	90,645	3	7209302	548	47,676
2/19/2016	1,037	90,645	3	7209303	2	600
2/19/2016	1,321	538,164	3	7232601	542	223,846
2/19/2016	1,321	538,164	3	7232601	778	314,312
2/19/2016	1,321	538,164	3	7239701	1	6
2/24/2016	6,496	1,150,348	6	7415801	147	14,700
2/24/2016	6,496	1,150,348	6	7415802	1,229	122,900
2/24/2016	6,496	1,150,348	6	7415803	2,010	201,000
2/24/2016	6,496	1,150,348	6	7415804	92	9,200
2/24/2016	6,496	1,150,348	6	7415701	1,695	305,100
2/24/2016	6,496	1,150,348	6	7424301	1,323	497,448

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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
2/28/2016	6,507	230,929	5	0011802	884	31,824
2/28/2016	6,507	230,929	5	0011804	1,141	42,217
2/28/2016	6,507	230,929	5	0011805	1,267	45,612
2/28/2016	6,507	230,929	5	0011801	1,249	42,466
2/28/2016	6,507	230,929	5	0011806	1,966	68,810
3/27/2016	3,223	733,087	8	7408401	1,128	258,312
3/27/2016	3,223	733,087	8	7408402	1,046	239,534
3/27/2016	3,223	733,087	8	7408403	53	12,137
3/27/2016	3,223	733,087	8	7426701	3	672
3/27/2016	3,223	733,087	8	7426702	333	74,592
3/27/2016	3,223	733,087	8	7426703	29	6,496
3/27/2016	3,223	733,087	8	7426704	165	36,960
3/27/2016	3,223	733,087	8	7426705	466	104,384
3/27/2016	323	835,825	3	7201501	100	244,000
3/27/2016	323	835,825	3	7231503	217	582,813
3/27/2016	323	835,825	3	7231505	6	9,012
4/3/2016	132	69,168	1	0014503	132	69,168
4/10/2016	1,162	247,512	2	7201501	1,161	247,293
4/10/2016	1,162	247,512	2	7201502	1	219
4/15/2016	3,500	192,500	4	7415801	146	8,030

**Ohio Power Company
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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
4/15/2016	3,500	192,500	4	7415802	1,243	68,365
4/15/2016	3,500	192,500	4	7415803	2,020	111,100
4/15/2016	3,500	192,500	4	7415804	91	5,005
4/15/2016	1,861	137,714	1	7421602	1,861	137,714
4/16/2016	1,861	119,104	1	7421602	1,861	119,104
4/19/2016	2,218	175,222	2	0037101	1,593	125,847
4/19/2016	2,218	175,222	2	0037102	625	49,375
4/21/2016	2	260	1	0031689	2	260
4/22/2016	769	103,815	1	7225001	769	103,815
4/25/2016	1,742	170,094	2	0010701	622	60,334
4/25/2016	1,742	170,094	2	0010703	1,120	109,760
4/25/2016	837	30,241	2	7231401	538	17,850
4/25/2016	837	30,241	2	7231402	299	12,391
4/26/2016	5,124	289,921	6	7407201	1,148	57,400
4/26/2016	5,124	289,921	6	7407202	477	23,850
4/26/2016	5,124	289,921	6	7421602	1,861	128,409
4/26/2016	5,124	289,921	6	7421801	389	19,061
4/26/2016	5,124	289,921	6	7421802	793	38,857
4/26/2016	5,124	289,921	6	7421803	456	22,344
4/30/2016	1,103	94,858	1	7410205	1,103	94,858

**Ohio Power Company
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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
4/30/2016	1,588	102,920	4	0016001	890	12,460
4/30/2016	1,588	102,920	4	0019131	15	8,250
4/30/2016	1,588	102,920	4	0019132	544	58,163
4/30/2016	1,588	102,920	4	0023802	139	24,047
5/2/2016	1,635	194,565	2	7108501	451	53,669
5/2/2016	1,635	194,565	2	7108502	1,184	140,896
5/3/2016	1,194	15,522	2	7440203	349	4,537
5/3/2016	1,194	15,522	2	7440204	845	10,985
5/8/2016	600	31,200	1	7216201	600	31,200
5/14/2016	4,763	581,086	6	7207201	1,146	139,812
5/14/2016	4,763	581,086	6	7207202	1,176	143,472
5/14/2016	4,763	581,086	6	7212001	607	74,054
5/14/2016	4,763	581,086	6	7212002	1,006	122,732
5/14/2016	4,763	581,086	6	7223001	609	74,298
5/14/2016	4,763	581,086	6	7223002	219	26,718
5/19/2016	5,118	605,090	7	7502101	177	17,346
5/19/2016	5,118	605,090	7	7502601	1,507	147,686
5/19/2016	5,118	605,090	7	7502602	636	62,328
5/19/2016	5,118	605,090	7	7511001	13	1,755
5/19/2016	5,118	605,090	7	7511101	1,178	159,030

**Ohio Power Company
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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
5/19/2016	5,118	605,090	7	7511102	960	129,600
5/19/2016	5,118	605,090	7	7511103	647	87,345
5/20/2016	3,236	268,588	3	7407401	428	35,524
5/20/2016	3,236	268,588	3	7407402	1,356	112,548
5/20/2016	3,236	268,588	3	7407403	1,452	120,516
5/28/2016	3,796	1,020,680	4	7423701	694	345,612
5/28/2016	3,796	1,020,680	4	7423702	743	370,757
5/28/2016	3,796	1,020,680	4	7426101	1,186	152,994
5/28/2016	3,796	1,020,680	4	7426102	1,173	151,317
5/29/2016	5,912	971,524	7	0016101	256	32,512
5/29/2016	5,912	971,524	7	0016102	211	26,797
5/29/2016	5,912	971,524	7	7423701	694	306,748
5/29/2016	5,912	971,524	7	7426101	1,186	152,994
5/29/2016	5,912	971,524	7	7426102	1,173	151,317
5/29/2016	5,912	971,524	7	7432601	876	108,624
5/29/2016	5,912	971,524	7	7432602	1,516	192,532
5/31/2016	6,463	184,152	6	0011202	10	280
5/31/2016	6,463	184,152	6	0011801	1,245	36,105
5/31/2016	6,463	184,152	6	0011802	874	24,472
5/31/2016	6,463	184,152	6	0011804	1,137	31,836

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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
5/31/2016	6,463	184,152	6	0011805	1,254	35,112
5/31/2016	6,463	184,152	6	0011806	1,943	56,347
6/1/2016	446	35,234	1	7405701	446	35,234
6/4/2016	285	36,480	1	7200601	285	36,480
6/11/2016	4,107	1,097,743	3	7413801	1,174	314,632
6/11/2016	4,107	1,097,743	3	7413802	2,542	678,714
6/11/2016	4,107	1,097,743	3	7413803	391	104,397
6/24/2016	1,251	495,396	1	7416101	1,251	495,396
6/24/2016	1,850	419,950	3	7516701	603	136,881
6/24/2016	1,850	419,950	3	7516702	31	7,037
6/24/2016	1,850	419,950	3	7517001	1,216	276,032
7/12/2016	1,494	90,390	3	7102301	722	43,320
7/12/2016	1,494	90,390	3	7102302	750	45,750
7/12/2016	1,494	90,390	3	7355501	22	1,320
7/15/2016	2,649	1,766,187	3	0011201	642	446,832
7/15/2016	2,649	1,766,187	3	0011202	1,622	927,810
7/15/2016	2,649	1,766,187	3	0011805	385	391,545
7/18/2016	1,201	78,065	1	7101701	1,201	78,065
7/24/2016	4,292	837,952	4	7501502	1,200	186,000
7/24/2016	4,292	837,952	4	7501504	959	148,645

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
7/24/2016	4,292	837,952	4	7501505	1,026	159,030
7/24/2016	4,292	837,952	4	7515401	1,107	344,277
7/25/2016	2,448	35,360	2	0018701	1,360	19,040
7/25/2016	2,448	35,360	2	0018702	1,088	16,320
7/28/2016	802	191,420	2	7507201	272	65,280
7/28/2016	802	191,420	2	7507202	530	126,140
7/29/2016	1,061	30,219	2	7504402	882	26,460
7/29/2016	1,061	30,219	2	7504401	179	3,759
7/29/2016	284	14,200	1	7200601	284	14,200
8/3/2016	2,321	312,091	3	7201501	1,150	159,850
8/3/2016	2,321	312,091	3	7201502	1	141
8/3/2016	2,321	312,091	3	7235001	1,170	152,100
8/6/2016	5,428	290,929	5	7407201	1,148	109,060
8/6/2016	5,428	290,929	5	7407202	471	44,745
8/6/2016	5,428	290,929	5	7421602	1,849	66,564
8/6/2016	5,428	290,929	5	7421701	520	18,720
8/6/2016	5,428	290,929	5	7421702	1,440	51,840
8/7/2016	1,122	34,782	1	7501901	1,122	34,782
8/9/2016	1,444	13,732	5	0019132	545	6,540
8/9/2016	1,444	13,732	5	0016001	882	7,056

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
8/9/2016	1,444	13,732	5	0018901	1	8
8/9/2016	1,444	13,732	5	0018902	1	8
8/9/2016	1,444	13,732	5	0019131	15	120
8/11/2016	1,122	29,172	1	7501901	1,122	29,172
8/19/2016	2	598	1	7121701	2	598
8/21/2016	1,380	162,840	2	7202401	844	99,592
8/21/2016	1,380	162,840	2	7202402	536	63,248
8/24/2016	1,157	145,782	2	7202701	390	49,140
8/24/2016	1,157	145,782	2	7202702	767	96,642
8/24/2016	1,337	735,954	3	7208401	135	38,340
8/24/2016	1,337	735,954	3	7227401	836	518,274
8/24/2016	1,337	735,954	3	7227402	366	179,340
8/25/2016	366	3,294	1	7227402	366	3,294
8/27/2016	387	128,661	1	7409701	387	128,661
8/27/2016	1,786	53,580	3	7515501	886	26,580
8/27/2016	1,786	53,580	3	7515502	800	24,000
8/27/2016	1,786	53,580	3	7515503	100	3,000
8/27/2016	604	146,772	4	7104901	215	52,245
8/27/2016	604	146,772	4	7123401	329	79,947
8/27/2016	604	146,772	4	7123402	1	243

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
8/27/2016	604	146,772	4	7131401	59	14,337
8/28/2016	1	489	1	7123402	1	489
8/28/2016	3,056	193,439	3	7403801	986	18,734
8/28/2016	3,056	193,439	3	7403802	265	5,035
8/28/2016	3,056	193,439	3	7408501	1,805	169,670
8/29/2016	3,056	21,392	3	7403801	986	6,902
8/29/2016	3,056	21,392	3	7403802	265	1,855
8/29/2016	3,056	21,392	3	7408501	1,805	12,635
9/1/2016	1,155	187,110	2	7201501	1,154	186,948
9/1/2016	1,155	187,110	2	7201502	1	162
9/8/2016	1,055	579,373	2	7504402	877	481,473
9/8/2016	1,055	579,373	2	7504401	178	97,900
9/9/2016	1,658	571,216	2	7407501	417	148,035
9/9/2016	1,658	571,216	2	7416101	1,241	423,181
9/9/2016	9,804	1,937,060	12	7401501	833	140,777
9/9/2016	9,804	1,937,060	12	7401502	1,909	322,621
9/9/2016	9,804	1,937,060	12	7401504	769	129,961
9/9/2016	9,804	1,937,060	12	7401505	806	136,214
9/9/2016	9,804	1,937,060	12	7401506	51	8,619
9/9/2016	9,804	1,937,060	12	7401507	436	73,684

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
9/9/2016	9,804	1,937,060	12	7402005	8	1,352
9/9/2016	9,804	1,937,060	12	7415701	1,534	868,116
9/9/2016	9,804	1,937,060	12	7415801	144	10,656
9/9/2016	9,804	1,937,060	12	7415802	1,228	90,872
9/9/2016	9,804	1,937,060	12	7415803	1,998	147,852
9/9/2016	9,804	1,937,060	12	7415804	88	6,336
9/9/2016	595	141,015	1	7216201	595	141,015
9/9/2016	198	7,128	1	7415701	198	7,128
9/13/2016	1,809	156,463	6	7104901	216	19,224
9/13/2016	1,809	156,463	6	7118401	741	61,503
9/13/2016	1,809	156,463	6	7118402	422	35,026
9/13/2016	1,809	156,463	6	7123401	45	4,005
9/13/2016	1,809	156,463	6	7123402	1	89
9/13/2016	1,809	156,463	6	7131401	384	36,616
9/16/2016	2,101	54,626	3	7408001	451	11,726
9/16/2016	2,101	54,626	3	7408002	1	26
9/16/2016	2,101	54,626	3	7408003	1,649	42,874
9/16/2016	2,972	260,912	5	7409601	318	27,348
9/16/2016	2,972	260,912	5	7409602	1,286	110,596
9/16/2016	2,972	260,912	5	7409603	135	11,610

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
9/16/2016	2,972	260,912	5	7409701	266	28,196
9/16/2016	2,972	260,912	5	7409801	967	83,162
9/17/2016	1,471	218,097	2	7104801	999	94,905
9/17/2016	1,471	218,097	2	7117501	472	123,192
9/18/2016	2,938	317,588	4	0008501	964	104,129
9/18/2016	2,938	317,588	4	0008502	679	74,011
9/18/2016	2,938	317,588	4	0008504	412	44,084
9/18/2016	2,938	317,588	4	0008505	883	95,364
9/20/2016	1,807	232,430	6	7104901	217	26,691
9/20/2016	1,807	232,430	6	7118401	741	61,503
9/20/2016	1,807	232,430	6	7118402	423	35,109
9/20/2016	1,807	232,430	6	7123401	293	76,577
9/20/2016	1,807	232,430	6	7123402	1	342
9/20/2016	1,807	232,430	6	7131401	132	32,208
9/23/2016	26,840	671,000	19	0004601	2,337	58,425
9/23/2016	26,840	671,000	19	0004602	1,345	33,625
9/23/2016	26,840	671,000	19	0004603	484	12,100
9/23/2016	26,840	671,000	19	0004604	1,684	42,100
9/23/2016	26,840	671,000	19	0004605	250	6,250
9/23/2016	26,840	671,000	19	0004606	1	25

**Ohio Power Company
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5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
9/23/2016	26,840	671,000	19	0004607	588	14,700
9/23/2016	26,840	671,000	19	0004608	1,886	47,150
9/23/2016	26,840	671,000	19	0004609	1,586	39,650
9/23/2016	26,840	671,000	19	0004610	1,558	38,950
9/23/2016	26,840	671,000	19	0004611	831	20,775
9/23/2016	26,840	671,000	19	0004612	1,233	30,825
9/23/2016	26,840	671,000	19	0004613	966	24,150
9/23/2016	26,840	671,000	19	0004614	1,370	34,250
9/23/2016	26,840	671,000	19	0008901	1,066	26,650
9/23/2016	26,840	671,000	19	0008902	3,195	79,875
9/23/2016	26,840	671,000	19	0008903	1,812	45,300
9/23/2016	26,840	671,000	19	0008904	1,432	35,800
9/23/2016	26,840	671,000	19	0008905	1,862	46,550
9/23/2016	26,840	671,000	19	0008906	1,354	33,850
9/30/2016	2,755	315,768	3	7101301	1,353	152,889
9/30/2016	2,755	315,768	3	7101302	247	28,899
9/30/2016	2,755	315,768	3	7101303	1,155	133,980
10/10/2016	6,045	54,405	5	0011801	1,237	11,133
10/10/2016	6,045	54,405	5	0011802	867	7,803
10/10/2016	6,045	54,405	5	0011804	1,139	10,251

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
10/10/2016	6,045	54,405	5	0011805	877	7,893
10/10/2016	6,045	54,405	5	0011806	1,925	17,325
10/14/2016	2,970	614,790	5	7409601	316	65,412
10/14/2016	2,970	614,790	5	7409602	1,286	266,202
10/14/2016	2,970	614,790	5	7409603	136	28,152
10/14/2016	2,970	614,790	5	7409701	266	55,062
10/14/2016	2,970	614,790	5	7409801	966	199,962
10/17/2016	1,398	177,546	2	7421501	714	90,678
10/17/2016	1,398	177,546	2	7421502	684	86,868
10/20/2016	362	50,813	2	0030971	133	18,753
10/20/2016	362	50,813	2	0030972	229	32,060
10/31/2016	1,719	627,435	2	0010701	617	225,205
10/31/2016	1,719	627,435	2	0010703	1,102	402,230
11/2/2016	5,130	461,700	3	7129501	2,101	189,090
11/2/2016	5,130	461,700	3	7129502	1,268	114,120
11/2/2016	5,130	461,700	3	7129503	1,761	158,490
11/9/2016	1,877	116,374	2	0017901	1,097	68,014
11/9/2016	1,877	116,374	2	0017902	780	48,360
11/10/2016	7,791	209,322	6	0022901	482	12,050
11/10/2016	7,791	209,322	6	0022902	2,691	75,348

**Ohio Power Company
Rule 10 Report for 2016**

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
11/10/2016	7,791	209,322	6	0022903	952	26,656
11/10/2016	7,791	209,322	6	0022904	1,206	33,768
11/10/2016	7,791	209,322	6	0022905	871	21,775
11/10/2016	7,791	209,322	6	0022906	1,589	39,725
11/18/2016	828	65,527	2	7501801	575	63,250
11/18/2016	828	65,527	2	7501802	253	2,277
11/19/2016	213	76,254	1	7104901	213	76,254
11/28/2016	1,233	355,640	2	4054221	697	200,736
11/28/2016	1,233	355,640	2	4054224	536	154,904
12/2/2016	713	221,089	2	7357001	495	153,945
12/2/2016	713	221,089	2	7357002	218	67,144
12/15/2016	1,765	843,670	2	7430601	472	225,616
12/15/2016	1,765	843,670	2	7515001	1,293	618,054
12/15/2016	3,633	1,286,724	4	7100801	471	137,061
12/15/2016	3,633	1,286,724	4	7100802	912	276,336
12/15/2016	3,633	1,286,724	4	7100803	972	308,124
12/15/2016	3,633	1,286,724	4	7100804	1,278	565,203
12/23/2016	6,155	308,872	4	0002902	678	33,222
12/23/2016	6,155	308,872	4	0002911	1,561	78,050
12/23/2016	6,155	308,872	4	0002913	1,800	91,800

Ohio Power Company
Rule 10 Report for 2016

5b. 4901:1-10-10(C)(2): Distribution Circuits Impacted by Transmission Outages

Outage Start Date	CI per Outage	CMI per Outage	# of Impacted Circuits	IDs for Impacted Circuits	CI per Circuit	CMI per Circuit
12/23/2016	6,155	308,872	4	0002914	2,116	105,800
12/26/2016	2,439	154,888	5	7215401	51	2,856
12/26/2016	2,439	154,888	5	7231301	427	23,912
12/26/2016	2,439	154,888	5	7231302	1,129	63,224
12/26/2016	2,439	154,888	5	7231401	535	41,730
12/26/2016	2,439	154,888	5	7231402	297	23,166
12/27/2016	1,623	232,089	2	7108501	450	64,350
12/27/2016	1,623	232,089	2	7108502	1,173	167,739

Notes: Excludes Major Event Outages

Ohio Power Company
Rule 10 Report for 2016

5c. 4901:1-10-10(C)(2): Index values during transmission outages

Outage start date	CAIDI during outage	SAIFI during outage
1/15/2016	86.0000	0.0015
1/21/2016	150.0000	0.0001
2/1/2016	117.5663	0.0012
2/16/2016	298.0000	0.0009
2/16/2016	102.0000	0.0008
2/19/2016	87.4108	0.0007
2/19/2016	407.3914	0.0009
2/24/2016	177.0856	0.0044
2/28/2016	35.4893	0.0045
3/27/2016	227.4549	0.0022
3/27/2016	2,587.6935	0.0002
4/3/2016	524.0000	0.0001
4/10/2016	213.0052	0.0008
4/15/2016	55.0000	0.0024
4/15/2016	74.0000	0.0013
4/16/2016	64.0000	0.0013
4/19/2016	79.0000	0.0015
4/21/2016	130.0000	0.0000
4/22/2016	135.0000	0.0005
4/25/2016	97.6429	0.0012
4/25/2016	36.1302	0.0006
4/26/2016	56.5810	0.0035
4/30/2016	86.0000	0.0008
4/30/2016	64.8111	0.0011
5/2/2016	119.0000	0.0011
5/3/2016	13.0000	0.0008
5/8/2016	52.0000	0.0004
5/14/2016	122.0000	0.0033
5/19/2016	118.2278	0.0035

Ohio Power Company
Rule 10 Report for 2016

5c. 4901:1-10-10(C)(2): Index values during transmission outages

Outage start date	CAIDI during outage	SAIFI during outage
5/20/2016	83.0000	0.0022
5/28/2016	268.8830	0.0026
5/29/2016	164.3309	0.0040
5/31/2016	28.4933	0.0044
6/1/2016	79.0000	0.0003
6/4/2016	128.0000	0.0002
6/11/2016	267.2859	0.0028
6/24/2016	396.0000	0.0009
6/24/2016	227.0000	0.0013
7/12/2016	60.5020	0.0010
7/15/2016	666.7373	0.0018
7/18/2016	65.0000	0.0008
7/24/2016	195.2358	0.0029
7/25/2016	14.4444	0.0017
7/28/2016	238.6783	0.0005
7/29/2016	28.4816	0.0007
7/29/2016	50.0000	0.0002
8/3/2016	134.4640	0.0016
8/6/2016	53.5978	0.0037
8/7/2016	31.0000	0.0008
8/9/2016	9.5097	0.0010
8/11/2016	26.0000	0.0008
8/19/2016	299.0000	0.0000
8/21/2016	118.0000	0.0009
8/24/2016	126.0000	0.0008
8/24/2016	550.4518	0.0009
8/25/2016	9.0000	0.0003
8/27/2016	332.4574	0.0003
8/27/2016	30.0000	0.0012

Ohio Power Company
Rule 10 Report for 2016

5c. 4901:1-10-10(C)(2): Index values during transmission outages

Outage start date	CAIDI during outage	SAIFI during outage
8/27/2016	243.0000	0.0004
8/28/2016	489.0000	0.0000
8/28/2016	63.2981	0.0021
8/29/2016	7.0000	0.0021
9/1/2016	162.0000	0.0008
9/8/2016	549.1687	0.0007
9/9/2016	344.5211	0.0011
9/9/2016	197.5785	0.0067
9/9/2016	237.0000	0.0004
9/9/2016	36.0000	0.0001
9/13/2016	86.4914	0.0012
9/16/2016	26.0000	0.0014
9/16/2016	87.7900	0.0020
9/17/2016	148.2644	0.0010
9/18/2016	108.0967	0.0020
9/20/2016	128.6276	0.0012
9/23/2016	25.0000	0.0184
9/30/2016	114.6163	0.0019
10/10/2016	9.0000	0.0041
10/14/2016	207.0000	0.0020
10/17/2016	127.0000	0.0010
10/20/2016	140.3674	0.0002
10/31/2016	365.0000	0.0012
11/2/2016	90.0000	0.0035
11/9/2016	62.0000	0.0013
11/10/2016	26.8672	0.0053
11/18/2016	79.1389	0.0006
11/19/2016	358.0000	0.0001
11/28/2016	288.4347	0.0008

Ohio Power Company
Rule 10 Report for 2016

5c. 4901:1-10-10(C)(2): Index values during transmission outages

Outage start date	CAIDI during outage	SAIFI during outage
12/2/2016	310.0827	0.0005
12/15/2016	478.0000	0.0012
12/15/2016	354.1767	0.0025
12/23/2016	50.1823	0.0042
12/26/2016	63.5047	0.0017
12/27/2016	143.0000	0.0011

Notes: Excludes Major Event Outages

Ohio Power Company
Rule 10 Report for 2016

6a. 4901:1-10-10(C)(3)(a): Data excluding major events and transmission outages

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Accidental Ground	206	24,061	1,409,337
Animal/Bird	3,654	81,463	8,896,361
Contamination/Flashover	4	192	15,684
Customer Equipment	58	4,922	574,247
Distribution Source	27	13,609	1,734,259
Equipment/Hardware Failure	8,338	507,202	68,462,876
Fire/Police	85	9,573	1,965,669
Flooding/Slide	3	86	5,497
High Winds	56	4,061	770,153
Ice/Sleet/Snow	94	2,267	560,256
Lightning	815	47,033	8,321,717
Object on Line	91	6,434	453,042
Operations Incident	25	87	15,054
Other	37	17,878	3,807,272
Other Utility	25	9,720	721,487
Overload	85	6,192	1,246,416
Scheduled/Planned Outage	12,338	183,513	16,559,659
Tree/Vegetation Removal	144	6,458	648,091
Trees Inside RoW	545	22,800	3,543,288
Trees Out of RoW	4,538	234,740	47,675,875
UG, Const/Dig-ins	260	6,814	1,177,691
Unknown	3,533	135,038	16,120,407
Unknown By Weather	578	61,250	11,261,974

**Ohio Power Company
Rule 10 Report for 2016**

6a. 4901:1-10-10(C)(3)(a): Data excluding major events and transmission outages

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Vandalism	138	404	114,305
Vehicle Accident/Auto Damage	1,101	191,948	30,262,225
Totals:	36,778	1,577,745	226,322,842

Notes:

Ohio Power Company
Rule 10 Report for 2016

6b. 4901:1-10-10(C)(3)(b): Data for major events only

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Accidental Ground	1	24	3,432
Animal/Bird	34	4,999	613,912
Customer Equipment	1	17	2,108
Equipment/Hardware Failure	150	12,306	2,561,485
Fire/Police	1	4	556
High Winds	47	7,563	2,553,529
Lightning	148	10,825	2,400,599
Object on Line	5	459	59,723
Other	1	115	30,754
Overload	1	8	768
Scheduled/Planned Outage	14	830	8,768
Tree/Vegetation Removal	2	81	14,178
Trees Inside RoW	30	1,401	533,385
Trees Out of RoW	424	29,207	10,182,016
Unknown	33	2,875	378,915
Unknown By Weather	134	10,000	2,557,559
Vandalism	2	2	143
Vehicle Accident/Auto Damage	9	751	369,435
Totals:	1,037	81,467	22,271,265

Notes:

Ohio Power Company
Rule 10 Report for 2016

6c. 4901:1-10-10(C)(3)(c): Data for transmission outages only

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Accidental Ground	19	16,333	1,175,852
Animal/Bird	9	6,939	618,163
Equipment/Hardware Failure	65	42,147	8,400,127
High Winds	3	1,337	735,954
Other	38	29,511	3,439,860
Other Utility	9	2,964	378,212
Scheduled/Planned Outage	41	35,268	4,339,356
Trees Inside RoW	11	9,401	501,740
Trees Out of RoW	48	36,245	6,791,293
Unbalance	2	2,448	35,360
Unknown	14	12,833	863,986
Unknown By Weather	6	1,576	82,900
Vandalism	21	25,408	635,200
Vehicle Accident/Auto Damage	14	7,468	1,019,526
Totals:	300	229,878	29,017,529

Notes:

**Ohio Power Company
Rule 10 Report for 2016**

7. 4901:1-10-10(C)(4): Momentary Interruptions

Total Number =

Notes: Data regarding momentary outages is not available

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Case No(s). 17-0890-EL-ESS

Summary: Report - Ohio Power Company Rule 10 Report for 2016 electronically filed by Mr. Steven T Nourse on behalf of Ohio Power Company