

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 21 -0992 -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 2020 .

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

THOMAS A. KRATT

Printed Name

VP DISTRIBUTION OPERATIONS

Title

03.31.2021

Date

Ohio Power Company
Rule 10 Report for 2020

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>
148.00	129.93	178.15

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>
1.18	1.11	1.43

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>
1,499,447	1,669,401	2,142,927	216,900,789	381,771,487

Notes:

*CI = Customer Interruptions
CMI = Customer Minutes Interrupted

Ohio Power Company
Rule 10 Report for 2020

4. 4901:1-10-10(C)(2): Major Event Outages

Date	Description	CI	CMI	CAIDI	SAIFI
4/8/2020	Major Event Day - Storms	27,318	9,321,532	341.22	0.02
5/10/2020	Major Event Day - Storms	23,682	7,019,693	296.41	0.02
6/10/2020	Major Event Day - Storms	109,793	64,244,620	585.14	0.07
8/25/2020	Major Event Day - Storms	29,043	9,873,967	339.98	0.02
9/7/2020	Major Event Day - Storms	32,158	9,717,257	302.17	0.02
11/15/2020	Major Event Day - Storms	86,457	38,482,120	445.10	0.06
Totals:		308,451	138,659,189		

Notes:

Ohio Power Company
Rule 10 Report for 2020

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)
1/9/2020	East Broad Street - Etna (CSP)	7:46 AM	40	EQUIPMENT FAILURE	71
1/11/2020	Glencoe - Speidel	12:38 PM	69	TREE OUT OF ROW	122
1/11/2020	Millbrook Park - Pedro Sw.	2:14 PM	69	EQUIPMENT FAILURE	230
1/11/2020	Glencoe - West Bellaire	4:53 PM	69	TREE OUT OF ROW	175
1/14/2020	Duckwall - Highland (CSP)	1:28 PM	69	ERROR - FIELD	237
1/15/2020	East Beaver - North Portsmouth	6:17 AM	69	TREE OUT OF ROW	508
2/4/2020	Firebrick - Lick	8:00 AM	69	SCHEDULED COMPANY	193
2/7/2020	Harrison - Madison	1:44 AM	69	VEHICLE ACCIDENT (NON AEP)	244
3/11/2020	Seaman - Stuart	1:22 PM	69	EQUIPMENT FAILURE	230
3/16/2020	North Baltimore - North Findlay No. 1	6:20 AM	34	SCHEDULED COMPANY	34
3/20/2020	Beartown-Moreland Sw	5:07 AM	69	WEATHER - LIGHTNING	133
3/26/2020	Berkshire - Trent	2:06 AM	138	OTHER UTILITY	116
3/29/2020	Glencoe - Robyville	1:45 PM	69	TREE OUT OF ROW	108
3/29/2020	East Cambridge - West Cambridge	3:52 PM	69	EQUIPMENT FAILURE	108
4/9/2020	Bellefonte - South Point No. 1	9:11 AM	69	EQUIPMENT FAILURE	227
4/9/2020	Dexter Sw. - Rutland	1:15 AM	138	TREE OUT OF ROW	2,140
4/9/2020	Muskingum River - South Rokeby	10:50 AM	69	TREE OUT OF ROW	126
4/9/2020	Hammondsville - South Toronto	6:30 PM	69	EQUIPMENT FAILURE	74
4/9/2020	Crooksville - New Lexington	9:20 AM	69	TREE OUT OF ROW	73
4/11/2020	Somerset - Zion	4:44 AM	69	TREE OUT OF ROW	241
4/13/2020	Ebersole - Plaza Street	1:18 PM	34	ERROR - FIELD	105
4/17/2020	Philo Sw. - South Canton	9:40 PM	138	TREE OUT OF ROW	155
4/21/2020	Somerset - Zion	5:48 PM	69	TREE OUT OF ROW	122

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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)
4/21/2020	East Wooster - Madisonburg - W	1:30 PM	69	SCHEDULED COMPANY	43
4/27/2020	West Hebron Transformer #1	1:02 AM	138	UNKNOWN (NON WEATHER)	213
4/29/2020	Duckwall - Highland (CSP)	8:10 AM	69	EQUIPMENT FAILURE	41
5/7/2020	Hammondsville - South Toronto	10:32 AM	69	VEHICLE ACCIDENT (NON AEP)	180
5/11/2020	Philo Sw. - South Canton	9:06 AM	138	SCHEDULED COMPANY	379
5/15/2020	Robb Avenue - Rockhill	3:38 PM	34	EQUIPMENT FAILURE	134
5/17/2020	Heppner Switch - Ross	12:01 AM	69	SCHEDULED COMPANY	105
5/19/2020	Stanton Street - West Alikanna	2:33 PM	69	TREE OUT OF ROW	86
5/19/2020	Muskingum River - South Rokeby	11:23 PM	69	TREE OUT OF ROW	111
5/22/2020	Harpster - North Waldo	9:06 AM	69	EQUIPMENT FAILURE	330
5/26/2020	New Liberty - South Findlay	4:11 PM	34	TREE OUT OF ROW	409
5/26/2020	Muskingum River - South Rokeby	4:19 PM	69	TREE OUT OF ROW	119
5/30/2020	Somerset - Zion	12:59 PM	69	UNKNOWN (NON WEATHER)	194
6/15/2020	Hammondsville - South Toronto	6:00 AM	69	SCHEDULED COMPANY	248
6/19/2020	North Baltimore - Portage	7:04 AM	34	SCHEDULED COMPANY	341
6/23/2020	ST. MARY'S (APS) - WADE TAP	4:12 PM	23	VEHICLE ACCIDENT (NON AEP)	17
6/24/2020	Crooksville - New Lexington	5:49 PM	69	TREE OUT OF ROW	1,060
6/29/2020	Mifflin - Saint Clair	12:32 PM	138	EQUIPMENT FAILURE	11
7/4/2020	Coopermill - South Fultonham	6:04 PM	69	WEATHER - LIGHTNING	71
7/7/2020	Newark - North Newark	1:48 PM	69	TREE OUT OF ROW	213
7/7/2020	East Logan - South Lancaster	3:12 PM	69	TREE OUT OF ROW	134
7/8/2020	Oakwood Road - West Canton	5:52 PM	69	EQUIPMENT FAILURE	318
7/10/2020	Dillonvale - Robyville - South Cadiz	5:24 PM	69	TREE OUT OF ROW	341

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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)
7/11/2020	Crooksville - Lemaster - Strouds Run	3:09 PM	138	UNKNOWN (NON WEATHER)	6
7/15/2020	Corner - Wolf Creek	11:11 AM	138	EQUIPMENT FAILURE	95
7/19/2020	Heppner Switch - Ross	12:00 AM	69	SCHEDULED COMPANY	198
7/19/2020	Newcomerstown - North Coshocton	5:58 PM	34	TREE OUT OF ROW	1,174
7/22/2020	Caldwell - South Cumberland	3:11 AM	34	UNKNOWN (NON WEATHER)	458
7/30/2020	East Sparta - June Road	10:00 PM	69	TREE OUT OF ROW	86
8/9/2020	South Side Lima 34.5 Kv Circuit	10:37 PM	34	ANIMAL - BIRD	302
8/15/2020	Crooksville - New Lexington	8:57 PM	69	ANIMAL - NON BIRD	148
8/17/2020	Somerset - Zion	1:26 PM	69	TREE OUT OF ROW	381
8/23/2020	Crooksville - South Fultonham	4:01 AM	69	SCHEDULED COMPANY	263
8/23/2020	Lakin - Racine	7:00 AM	69	SCHEDULED COMPANY	197
8/27/2020	East Liverpool - Second Street (East Liverpool)	6:04 PM	69	TREE OUT OF ROW	550
8/27/2020	North Wellsville - Second Street	6:04 PM	69	TREE OUT OF ROW	550
8/27/2020	Bane Switch - Pekin	6:16 PM	69	TREE OUT OF ROW	277
9/5/2020	Devola - Gorsuch	9:06 AM	138	SCHEDULED COMPANY	18
9/5/2020	Elliott - Lee	6:00 AM	69	SCHEDULED COMPANY	163
9/8/2020	Busch Sw. - Lazelle	8:14 AM	69	EQUIPMENT FAILURE	13
9/13/2020	Dennison - Newport	10:00 PM	69	SCHEDULED COMPANY	462
9/14/2020	Mill Creek - Noble County	6:41 AM	23	SCHEDULED COMPANY	8
9/30/2020	Hammondsville - South Toronto	11:15 AM	69	EQUIPMENT FAILURE	99
10/10/2020	Haviland - South Van Wert	7:04 PM	69	TREE OUT OF ROW	249
10/13/2020	Fremont Center - Riverview	9:00 AM	69	SCHEDULED COMPANY	180
10/14/2020	Harpster - North Waldo	6:32 AM	69	SCHEDULED COMPANY	16

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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)
10/17/2020	Crooksville - Lemaster - Strouds Run	8:00 AM	138	SCHEDULED COMPANY	251
10/18/2020	Bluffton - Rockhill	2:47 PM	34	EQUIPMENT FAILURE	134
10/20/2020	East Liverpool - Wylie Ridge	8:02 AM	138	OTHER UTILITY	108
11/1/2020	Elliott - Lee	5:00 PM	69	TREE OUT OF ROW	314
11/1/2020	Findlay - North Findlay	2:54 AM	34	EQUIPMENT FAILURE	118
11/7/2020	East Liverpool - Wylie Ridge	5:10 AM	138	SCHEDULED COMPANY	6
11/7/2020	ST. MARY'S (APS) - WADE TAP	4:08 PM	23	TREE OUT OF ROW	209
11/8/2020	East Cambridge - Vail	1:36 PM	69	ANIMAL - BIRD	55
11/9/2020	Crooksville - South Fultonham	8:34 AM	69	SCHEDULED COMPANY	581
11/16/2020	Carrothers - Chatfield	4:06 PM	69	SCHEDULED COMPANY	336
11/24/2020	Harpster - North Waldo	6:45 AM	69	SCHEDULED COMPANY	24
11/30/2020	Bixby - Shannon	12:57 PM	138	TREE OUT OF ROW	97
12/15/2020	Crooksville - South Fultonham	4:01 AM	69	SCHEDULED COMPANY	444
12/15/2020	Millbrook Park - North Portsmouth	9:27 AM	138	UNKNOWN (NON WEATHER)	82
12/25/2020	Muskingum River - West Cambridge	8:50 AM	138	WEATHER - ICE (1/2 INCH OR > 6 " SNOW)	327
12/25/2020	Philo Sw. - South Canton	8:52 AM	138	WEATHER - ICE (1/2 INCH OR > 6 " SNOW)	196
12/30/2020	Ralston - South Lancaster	10:35 AM	69	TREE OUT OF ROW	174
12/31/2020	Crooksville - New Lexington	9:05 AM	69	SCHEDULED COMPANY	105

Notes: Excludes Major Event Outages. 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). Many of these "transmission caused" outages (especially the scheduled ones) are not full distribution circuit outages resulting from loss of source, but partial distribution circuit interruptions because of nearby transmission facilities.

**Ohio Power Company
Rule 10 Report for 2020**

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
1/9/2020	3,360	238,560	6	0007001	809	57,439
1/9/2020	3,360	238,560	6	0007002	928	65,888
1/9/2020	3,360	238,560	6	0007003	666	47,286
1/9/2020	3,360	238,560	6	0007004	302	21,442
1/9/2020	3,360	238,560	6	0007005	433	30,743
1/9/2020	3,360	238,560	6	0007006	222	15,762
1/11/2020	1,582	185,066	2	7361902	893	108,946
1/11/2020	1,582	185,066	2	7361903	689	76,120
1/11/2020	1,190	273,700	1	0013402	1,190	273,700
1/11/2020	1,269	222,075	1	7500901	1,269	222,075
1/14/2020	103	24,411	1	0015403	103	24,411
1/15/2020	6,992	1,205,915	9	0016101	252	9,576
1/15/2020	6,992	1,205,915	9	0016102	211	8,018
1/15/2020	6,992	1,205,915	9	7410701	1,667	419,395
1/15/2020	6,992	1,205,915	9	7410702	716	178,284
1/15/2020	6,992	1,205,915	9	7411202	28	14,224
1/15/2020	6,992	1,205,915	9	7427101	806	200,694
1/15/2020	6,992	1,205,915	9	7427102	878	218,622
1/15/2020	6,992	1,205,915	9	7432601	910	99,190
1/15/2020	6,992	1,205,915	9	7432602	1,524	57,912

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
2/4/2020	1,767	339,759	2	0024201	636	121,476
2/4/2020	1,767	339,759	2	0024204	1,131	218,283
2/7/2020	1,455	275,532	2	0000801	543	119,580
2/7/2020	1,455	275,532	2	0000802	912	155,952
3/11/2020	5,045	904,458	7	0010701	582	133,860
3/11/2020	5,045	904,458	7	0010703	1,096	252,080
3/11/2020	5,045	904,458	7	0011101	34	5,236
3/11/2020	5,045	904,458	7	0011102	1,006	154,924
3/11/2020	5,045	904,458	7	0011103	996	153,384
3/11/2020	5,045	904,458	7	0017701	476	73,304
3/11/2020	5,045	904,458	7	0017702	855	131,670
3/16/2020	436	14,824	1	7213403	436	14,824
3/20/2020	1,469	195,377	2	7109401	589	78,337
3/20/2020	1,469	195,377	2	7109402	880	117,040
3/26/2020	7	812	2	0008131	3	348
3/26/2020	7	812	2	0008132	4	464
3/29/2020	5,832	613,023	7	7328902	680	72,760
3/29/2020	5,832	613,023	7	7506701	434	47,306
3/29/2020	5,832	613,023	7	7513901	863	90,615
3/29/2020	5,832	613,023	7	7513902	1,417	147,368

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
3/29/2020	5,832	613,023	7	7515002	563	60,241
3/29/2020	5,832	613,023	7	7515003	893	95,551
3/29/2020	5,832	613,023	7	7517101	982	99,182
3/29/2020	799	83,954	3	7408301	739	77,595
3/29/2020	799	83,954	3	7408302	1	105
3/29/2020	799	83,954	3	7423201	59	6,254
4/9/2020	2,082	233,905	3	7409503	1,317	60,250
4/9/2020	2,082	233,905	3	7411601	557	126,439
4/9/2020	2,082	233,905	3	7411602	208	47,216
4/9/2020	2,300	663,094	3	7409602	1,223	260,499
4/9/2020	2,300	663,094	3	7409702	965	179,490
4/9/2020	2,300	663,094	3	7431301	112	223,105
4/9/2020	1,946	245,196	2	7421701	495	62,370
4/9/2020	1,946	245,196	2	7421702	1,451	182,826
4/9/2020	1,980	146,520	4	7503701	43	3,182
4/9/2020	1,980	146,520	4	7503702	301	22,274
4/9/2020	1,980	146,520	4	7509201	829	61,346
4/9/2020	1,980	146,520	4	7509202	807	59,718
4/9/2020	946	69,058	1	7412301	946	69,058
4/11/2020	450	108,450	1	7404501	450	108,450

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
4/13/2020	1,646	160,892	5	7232401	1,225	118,825
4/13/2020	1,646	160,892	5	7232402	34	3,468
4/13/2020	1,646	160,892	5	7232403	337	33,363
4/13/2020	1,646	160,892	5	7232404	7	721
4/13/2020	1,646	160,892	5	7232405	43	4,515
4/17/2020	4,190	292,275	5	7360601	1,059	6,354
4/17/2020	4,190	292,275	5	7360602	1,336	8,016
4/17/2020	4,190	292,275	5	7422401	578	89,590
4/17/2020	4,190	292,275	5	7422402	897	139,035
4/17/2020	4,190	292,275	5	7422403	320	49,280
4/21/2020	450	54,451	2	7404501	449	54,329
4/21/2020	450	54,451	2	7404502	1	122
4/21/2020	2	86	1	7114503	2	86
4/27/2020	5,663	1,126,579	3	7400301	1,398	220,884
4/27/2020	5,663	1,126,579	3	7423601	50	7,900
4/27/2020	5,663	1,126,579	3	7423602	4,215	897,795
4/29/2020	34	1,394	1	0015403	34	1,394
5/7/2020	302	54,360	1	7503702	302	54,360
5/11/2020	13	4,927	1	7360602	13	4,927
5/15/2020	1	134	1	7206002	1	134

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
5/17/2020	1,894	196,658	2	0017901	1,106	113,918
5/17/2020	1,894	196,658	2	0017902	788	82,740
5/19/2020	1	86	1	7504901	1	86
5/19/2020	1,956	217,116	2	7421701	501	55,611
5/19/2020	1,956	217,116	2	7421702	1,455	161,505
5/22/2020	1,985	650,008	4	7228001	851	279,128
5/22/2020	1,985	650,008	4	7228002	466	153,780
5/22/2020	1,985	650,008	4	7228801	425	138,125
5/22/2020	1,985	650,008	4	7228802	243	78,975
5/26/2020	3	1,046	3	7210802	1	228
5/26/2020	3	1,046	3	7215002	1	409
5/26/2020	3	1,046	3	7225301	1	409
5/26/2020	1,959	233,121	2	7421701	502	59,738
5/26/2020	1,959	233,121	2	7421702	1,457	173,383
5/30/2020	453	87,882	2	7404501	452	87,688
5/30/2020	453	87,882	2	7404502	1	194
6/15/2020	1,637	404,358	2	7509201	828	205,344
6/15/2020	1,637	404,358	2	7509202	809	199,014
6/19/2020	605	206,305	1	7216201	605	206,305
6/23/2020	852	14,484	3	0033172	146	2,482

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
6/23/2020	852	14,484	3	0033971	555	9,435
6/23/2020	852	14,484	3	0033972	151	2,567
6/24/2020	938	900,304	1	7412301	938	900,304
6/29/2020	3,600	32,292	2	0004209	1,773	19,503
6/29/2020	3,600	32,292	2	0004210	1,827	12,789
7/4/2020	2,198	156,058	3	7425501	62	4,402
7/4/2020	2,198	156,058	3	7427201	1,483	105,293
7/4/2020	2,198	156,058	3	7427202	653	46,363
7/7/2020	4,658	1,079,332	5	7404401	1,254	265,848
7/7/2020	4,658	1,079,332	5	7404402	742	158,046
7/7/2020	4,658	1,079,332	5	7404403	1,488	313,968
7/7/2020	4,658	1,079,332	5	7404404	1,164	339,330
7/7/2020	4,658	1,079,332	5	7404405	10	2,140
7/7/2020	3,278	439,252	2	7424201	1,640	219,760
7/7/2020	3,278	439,252	2	7424202	1,638	219,492
7/8/2020	3,033	964,494	1	7108707	3,033	964,494
7/10/2020	975	397,197	2	7500701	438	148,920
7/10/2020	975	397,197	2	7500702	537	248,277
7/11/2020	3,903	23,418	4	0023001	1,088	6,528
7/11/2020	3,903	23,418	4	0023002	1,201	7,206

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
7/11/2020	3,903	23,418	4	0023003	1,312	7,872
7/11/2020	3,903	23,418	4	0023004	302	1,812
7/15/2020	2,178	204,032	2	0033671	1,439	133,827
7/15/2020	2,178	204,032	2	0033672	739	70,205
7/19/2020	1,899	374,893	2	0017901	1,109	218,473
7/19/2020	1,899	374,893	2	0017902	790	156,420
7/19/2020	2,433	1,660,869	3	7104801	1,011	669,432
7/19/2020	2,433	1,660,869	3	7104802	945	704,283
7/19/2020	2,433	1,660,869	3	7117501	477	287,154
7/22/2020	1	458	1	7438101	1	458
7/30/2020	1	86	1	7123701	1	86
8/9/2020	729	115,816	1	7206102	729	115,816
8/15/2020	3,707	543,260	4	7400501	1,554	226,884
8/15/2020	3,707	543,260	4	7400502	1,134	165,564
8/15/2020	3,707	543,260	4	7400503	958	141,784
8/15/2020	3,707	543,260	4	7432501	61	9,028
8/17/2020	452	109,871	1	7404501	452	109,871
8/23/2020	890	231,174	2	7425201	724	187,516
8/23/2020	890	231,174	2	7425202	166	43,658
8/23/2020	288	56,736	1	7730001	288	56,736

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
8/27/2020	4,571	1,586,333	8	7505301	457	123,390
8/27/2020	4,571	1,586,333	8	7505302	322	86,940
8/27/2020	4,571	1,586,333	8	7508801	682	247,566
8/27/2020	4,571	1,586,333	8	7508802	185	101,750
8/27/2020	4,571	1,586,333	8	7512701	66	23,166
8/27/2020	4,571	1,586,333	8	7512702	1,897	665,847
8/27/2020	4,571	1,586,333	8	7512703	961	337,311
8/27/2020	4,571	1,586,333	8	7518501	1	363
8/27/2020	129	35,733	1	7044701	129	35,733
9/5/2020	2,884	34,738	6	0031072	1,192	16,688
9/5/2020	2,884	34,738	6	0031074	233	3,262
9/5/2020	2,884	34,738	6	0031075	66	858
9/5/2020	2,884	34,738	6	0031673	1,159	11,590
9/5/2020	2,884	34,738	6	0031771	175	1,750
9/5/2020	2,884	34,738	6	0031774	59	590
9/5/2020	2,058	334,589	2	0011001	1,193	194,459
9/5/2020	2,058	334,589	2	0011002	865	140,130
9/8/2020	4,332	56,316	6	0001203	91	1,183
9/8/2020	4,332	56,316	6	0001205	1,978	25,714
9/8/2020	4,332	56,316	6	0001208	539	7,007

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
9/8/2020	4,332	56,316	6	0001209	1,304	16,952
9/8/2020	4,332	56,316	6	0001213	333	4,329
9/8/2020	4,332	56,316	6	0001214	87	1,131
9/13/2020	733	338,646	1	7106001	733	338,646
9/14/2020	1,060	8,480	2	0031271	628	5,024
9/14/2020	1,060	8,480	2	0031272	432	3,456
9/30/2020	345	33,853	2	7503701	43	4,257
9/30/2020	345	33,853	2	7503702	302	29,596
10/10/2020	5,518	1,175,832	9	7207302	16	3,984
10/10/2020	5,518	1,175,832	9	7208401	131	12,969
10/10/2020	5,518	1,175,832	9	7208901	1,853	461,397
10/10/2020	5,518	1,175,832	9	7208902	325	80,925
10/10/2020	5,518	1,175,832	9	7208903	1,446	360,054
10/10/2020	5,518	1,175,832	9	7208904	403	100,347
10/10/2020	5,518	1,175,832	9	7208905	154	38,346
10/10/2020	5,518	1,175,832	9	7227401	828	81,972
10/10/2020	5,518	1,175,832	9	7227402	362	35,838
10/13/2020	19	3,420	1	7235801	19	3,420
10/14/2020	478	7,648	1	7234501	478	7,648
10/17/2020	2,288	571,042	2	0011201	665	166,915

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
10/17/2020	2,288	571,042	2	0011202	1,623	404,127
10/18/2020	1,022	136,948	2	7212102	493	66,062
10/18/2020	1,022	136,948	2	7212103	529	70,886
10/20/2020	6,867	741,636	4	7506001	1,985	214,380
10/20/2020	6,867	741,636	4	7506002	1,691	182,628
10/20/2020	6,867	741,636	4	7506401	463	50,004
10/20/2020	6,867	741,636	4	7506402	2,728	294,624
11/1/2020	2,057	645,898	2	0011001	1,190	373,660
11/1/2020	2,057	645,898	2	0011002	867	272,238
11/1/2020	1,614	190,452	1	7212402	1,614	190,452
11/7/2020	6,849	41,094	4	7506001	1,981	11,886
11/7/2020	6,849	41,094	4	7506002	1,687	10,122
11/7/2020	6,849	41,094	4	7506401	460	2,760
11/7/2020	6,849	41,094	4	7506402	2,721	16,326
11/7/2020	1,504	319,754	4	0033171	658	142,940
11/7/2020	1,504	319,754	4	0033172	145	30,305
11/7/2020	1,504	319,754	4	0033971	548	114,532
11/7/2020	1,504	319,754	4	0033972	153	31,977
11/8/2020	3,489	191,895	7	7360201	260	14,300
11/8/2020	3,489	191,895	7	7360202	485	26,675

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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
11/8/2020	3,489	191,895	7	7360203	860	47,300
11/8/2020	3,489	191,895	7	7419901	644	35,420
11/8/2020	3,489	191,895	7	7419902	346	19,030
11/8/2020	3,489	191,895	7	7419903	433	23,815
11/8/2020	3,489	191,895	7	7430601	461	25,355
11/9/2020	1	581	1	7425201	1	581
11/16/2020	787	264,432	1	7204801	787	264,432
11/24/2020	482	11,568	1	7234501	482	11,568
11/30/2020	10,029	989,776	7	0004608	281	27,257
11/30/2020	10,029	989,776	7	0008901	1,121	108,737
11/30/2020	10,029	989,776	7	0008902	3,391	328,927
11/30/2020	10,029	989,776	7	0008903	650	63,700
11/30/2020	10,029	989,776	7	0008904	1,436	141,629
11/30/2020	10,029	989,776	7	0008905	1,774	179,174
11/30/2020	10,029	989,776	7	0008906	1,376	140,352
12/15/2020	870	375,575	2	7425201	725	311,575
12/15/2020	870	375,575	2	7425202	145	64,000
12/15/2020	900	73,800	1	7432601	900	73,800
12/25/2020	1,392	453,778	2	7421501	703	228,475
12/25/2020	1,392	453,778	2	7421502	689	225,303

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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
12/25/2020	1,786	350,056	3	7422401	573	112,308
12/25/2020	1,786	350,056	3	7422402	893	175,028
12/25/2020	1,786	350,056	3	7422403	320	62,720
12/30/2020	1,065	184,698	3	7432401	1,048	182,352
12/30/2020	1,065	184,698	3	7432402	6	828
12/30/2020	1,065	184,698	3	7432403	11	1,518
12/31/2020	129	13,545	1	7400501	129	13,545

Notes: Excludes Major Event Outages

Ohio Power Company
Rule 10 Report for 2020

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

Outage start date	CAIDI during outage	SAIFI during outage
1/9/2020	71.0000	0.0020
1/11/2020	117.0000	0.0010
1/11/2020	230.0000	0.0010
1/11/2020	175.0000	0.0010
1/14/2020	237.0000	0.0000
1/15/2020	172.0000	0.0050
2/4/2020	192.0000	0.0010
2/7/2020	189.0000	0.0010
3/11/2020	179.0000	0.0030
3/16/2020	34.0000	0.0000
3/20/2020	133.0000	0.0010
3/26/2020	116.0000	0.0000
3/29/2020	105.0000	0.0040
3/29/2020	105.0000	0.0010
4/9/2020	112.0000	0.0010
4/9/2020	288.0000	0.0020
4/9/2020	126.0000	0.0010
4/9/2020	74.0000	0.0010
4/9/2020	73.0000	0.0010
4/11/2020	241.0000	0.0000
4/13/2020	98.0000	0.0010
4/17/2020	70.0000	0.0030
4/21/2020	121.0000	0.0000
4/21/2020	43.0000	0.0000
4/27/2020	199.0000	0.0040
4/29/2020	41.0000	0.0000
5/7/2020	180.0000	0.0000
5/11/2020	379.0000	0.0000
5/15/2020	134.0000	0.0000

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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

Outage start date	CAIDI during outage	SAIFI during outage
5/17/2020	104.0000	0.0010
5/19/2020	86.0000	0.0000
5/19/2020	111.0000	0.0010
5/22/2020	327.0000	0.0010
5/26/2020	349.0000	0.0000
5/26/2020	119.0000	0.0010
5/30/2020	194.0000	0.0000
6/15/2020	247.0000	0.0010
6/19/2020	341.0000	0.0000
6/23/2020	17.0000	0.0010
6/24/2020	960.0000	0.0010
6/29/2020	9.0000	0.0020
7/4/2020	71.0000	0.0010
7/7/2020	232.0000	0.0030
7/7/2020	134.0000	0.0020
7/8/2020	318.0000	0.0020
7/10/2020	407.0000	0.0010
7/11/2020	6.0000	0.0030
7/15/2020	94.0000	0.0010
7/19/2020	197.0000	0.0010
7/19/2020	683.0000	0.0020
7/22/2020	458.0000	0.0000
7/30/2020	86.0000	0.0000
8/9/2020	159.0000	0.0000
8/15/2020	147.0000	0.0020
8/17/2020	243.0000	0.0000
8/23/2020	260.0000	0.0010
8/23/2020	197.0000	0.0000
8/27/2020	347.0000	0.0030

3/29/2021

**Ohio Power Company
Rule 10 Report for 2020**

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

Outage start date	CAIDI during outage	SAIFI during outage
8/27/2020	277.0000	0.0000
9/5/2020	12.0000	0.0020
9/5/2020	163.0000	0.0010
9/8/2020	13.0000	0.0030
9/13/2020	462.0000	0.0000
9/14/2020	8.0000	0.0010
9/30/2020	98.0000	0.0000
10/10/2020	213.0000	0.0040
10/13/2020	180.0000	0.0000
10/14/2020	16.0000	0.0000
10/17/2020	250.0000	0.0020
10/18/2020	134.0000	0.0010
10/20/2020	108.0000	0.0050
11/1/2020	314.0000	0.0010
11/1/2020	118.0000	0.0010
11/7/2020	6.0000	0.0050
11/7/2020	213.0000	0.0010
11/8/2020	55.0000	0.0020
11/9/2020	581.0000	0.0000
11/16/2020	336.0000	0.0010
11/24/2020	24.0000	0.0000
11/30/2020	99.0000	0.0070
12/15/2020	432.0000	0.0010
12/15/2020	82.0000	0.0010
12/25/2020	326.0000	0.0010
12/25/2020	196.0000	0.0010
12/30/2020	173.0000	0.0010
12/31/2020	105.0000	0.0000

**Ohio Power Company
Rule 10 Report for 2020**

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

Outage start date

CAIDI during outage

SAIFI during outage

Notes: Excludes Major Event Outages

Ohio Power Company
Rule 10 Report for 2020

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

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Abnormal Feed	35	24,643	3,314,169
Accidental Ground	190	21,883	1,511,449
Animal	4,473	95,330	7,223,376
Contamination/Flashover	5	269	64,550
Corrosion	256	1,987	181,404
Customer Equipment	26	1,520	67,139
Distribution Station	209	182,164	24,578,254
Equipment Hardware Failure	8,230	439,119	54,651,140
Facilitation of Work	92	5,825	171,106
Fire/Police	68	6,185	342,933
Flooding/Slide	23	3,972	903,367
High Winds	84	2,157	386,393
Ice/Sleet/Snow	4	31	8,679
Lightning	502	25,505	4,485,420
Object in Line	103	11,192	978,895
Operations Incident	15	398	23,710
Other	8	1,336	13,202
Other Utility	24	9,363	868,400
Overload	135	9,778	770,914
Scheduled/Planned	10,042	114,160	10,202,434
Tree/Vegetation Removal	152	6,089	675,703
Trees Inside RoW	508	13,467	2,469,355
Trees Outside RoW	5,529	264,018	54,299,052

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
UG, Const/Dig-ins	256	9,878	1,241,673
Unbalance	9	172	4,827
Unknown	3,475	164,825	12,237,515
Unknown By Weather	628	57,073	7,874,621
Vandalism	69	1,061	71,296
Vehicle Accident/Auto Damage	1,014	196,001	27,279,813
Totals:	36,164	1,669,401	216,900,789

Notes:

Ohio Power Company
Rule 10 Report for 2020

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

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Abnormal Feed	3	177	9,630
Accidental Ground	1	1	133
Animal	88	3,343	308,557
Contamination/Flashover	2	190	36,258
Corrosion	10	1,331	160,642
Customer Equipment	2	212	11,750
Equipment Hardware Failure	390	37,916	11,216,195
Facilitation of Work	1	1,817	1,208,305
Fire/Police	1	2	90
Flooding/Slide	2	208	138,415
High Winds	254	23,806	11,060,384
Lightning	113	17,520	3,678,358
Load Shed	1	1,075	22,575
Object in Line	11	1,271	212,244
Operations Incident	1	120	109,800
Other	1	1	367
Other Utility	4	1,293	255,939
Overload	1	1	206
Scheduled/Planned	186	6,170	832,325
Tree/Vegetation Removal	15	3,407	1,270,464
Trees Inside RoW	217	14,244	8,692,691
Trees Outside RoW	1,690	143,428	78,928,629
UG, Const/Dig-ins	2	9	3,592

3/29/2021

Ohio Power Company
Rule 10 Report for 2020

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

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Unbalance	2	52	54,859
Unknown	93	2,919	510,418
Unknown By Weather	315	45,537	19,486,538
Vandalism	1	615	3,690
Vehicle Accident/Auto Damage	8	1,786	446,135
Totals:	3,415	308,451	138,659,189

Notes: All causes, even transmission

Ohio Power Company
Rule 10 Report for 2020

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

Outage Cause	Events	Customers Interrupted	Customers Minutes Interrupted
Accidental Ground	6	1,749	185,303
Animal	13	7,925	850,971
Equipment Hardware Failure	47	32,541	4,144,766
Ice/Sleet/Snow	5	3,178	803,834
Lightning	8	3,667	351,435
Other Utility	6	6,874	742,448
Scheduled/Planned	44	28,069	3,835,078
Trees Outside RoW	105	67,543	13,641,161
Unknown	11	10,920	1,312,137
Vehicle Accident/Auto Damage	6	2,609	344,376
Totals:	251	165,075	26,211,509

Notes: excludes major events

**Ohio Power Company
Rule 10 Report for 2020**

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). 21-0992-EL-ESS

Summary: Report - Ohio Power Company's 2020 Ruler 10 Report electronically filed by Ms. Christen M. Blend on behalf of Ohio Power Company