

Emily V. Danford
Attorney

330-384-5849
edanford@firstenergycorp.com

March 31, 2021

Ms. Renee J. Jenkins
Director, Administration Department
Secretary to the Commission
Docketing Division
The Public Utilities Commission of Ohio
180 East Broad Street
Columbus, Ohio 43215-3793

Re: *In the Matter of the FirstEnergy Companies Report Filed Pursuant to Rule 10 of the Electric Service and Safety Standards, Ohio Administrative Code 4901:1-10-10 Case No. 21-993-EL-ESS*

Dear Ms. Jenkins:

Enclosed for filing please find the FirstEnergy Companies' Annual Report in the above referenced proceeding filed pursuant to Rule 10 of the Electric Service and Safety Standards, Ohio Administrative Code 4901:1-10-10.

Thank you for your assistance in this matter. Please contact me if you have any questions concerning this matter.

Respectfully,

/s/ Emily V. Danford

Emily V. Danford

Enc.

**The Ohio Edison 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>
114.37	105.40	236.44

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>
1.11	0.89	1.45

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>
1,046,570	929,695	1,518,086	97,987,745	358,933,299

Notes:

CI = Customer Interruptions
CMI = Customer Minutes Interrupted

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

Date	Description	CI	CMI	CAIDI	SAIFI
01/12/2020	Thunderstorms	15,344	3,652,474	238.04	0.0147
03/29/2020	High Winds	23,447	4,636,813	197.76	0.0224
04/07/2020	Thunderstorms	43,906	28,627,244	652.01	0.0420
04/08/2020	Thunderstorms	49,792	40,538,154	814.15	0.0476
06/10/2020	Thunderstorms	63,488	36,649,380	577.26	0.0607
08/27/2020	Thunderstorms	19,163	6,585,397	343.65	0.0183
11/15/2020	Thunderstorms	127,772	113,756,412	890.31	0.1221
12/01/2020	Snow Storm	26,086	4,968,435	190.46	0.0249
Totals:		368,998	239,414,309		

Notes:

**The Ohio Edison 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)
01/17/2020	N/A - Dx outage taken to repair Tx system. No associated Tx outage for this order	2:28 PM	69	Cross Arm Failure	0
01/30/2020	2426-1	4:52 PM	69	Vehicle Pole/Tower Accident	41,361
02/20/2020	2340	9:07 PM	69	Emergency Forced	761
03/12/2020	2009-1	1:25 PM	138	Unknown	146
03/19/2020	2421-2	11:23 PM	69	Fall-ins (outside ROW) (not due to Nat Dis or Human Error)	1,001
03/26/2020	N/A - Bus outage, no transmission line outage	9:29 PM	138	Human error	18
03/28/2020	2414	1:59 PM	69	No correlation available	2,987
04/08/2020	2225	12:07 AM	69	Weather induced fall-in (outside ROW)	2,529
04/08/2020	2002	12:31 AM	138	Weather induced fall-in (outside ROW)	1,195
04/09/2020	2314	8:35 AM	69	Weather induced fall-in (outside ROW)	21
05/16/2020	2424	6:00 PM	69	PT Failure	5,325
05/20/2020	2312-3	1:04 AM	69	Other Vandalism	140
05/22/2020	N/A - Switch failure, no transmission line outage	10:59 AM	138	Switch failure	0
05/26/2020	N/A - Bus outage, no transmission line outage	9:07 PM	138	Breaker recloser failure	0
05/29/2020	2205	6:39 PM	69	Weather induced fall-in (outside ROW)	16
06/01/2020	2204	4:22 PM	69	Fall-ins (outside ROW) (not due to Nat Dis or Human Error)	68
06/04/2020	2203	4:14 PM	69	Cross Arm Failure	469
06/09/2020	2302	2:30 PM	69	System overload	470
06/09/2020	N/A - Damaged transformer	7:12 PM	138	Human error	64
06/10/2020	3140	6:24 PM	69	Pole failure	2,632
06/14/2020	3122-2	11:37 AM	69	Fall-ins (outside ROW) (not due to Nat Dis or Human Error)	304
06/19/2020	2418	8:01 PM	69	Insulator Failure	84
07/08/2020	3124-1	5:35 PM	69	Vehicle Pole/Tower Accident	1,350
07/09/2020	3109	8:23 PM	69	Cross Arm Brace Failure	491
07/09/2020	3112	8:23 PM	69	Cross Arm Brace Failure	992
07/19/2020	2017	6:35 PM	138	Weather induced fall-in (outside ROW)	558
07/22/2020	2427-1	11:14 AM	69	Cross Arm Failure	1,302
07/27/2020	2418	10:09 PM	69	Pole Fire	984
08/04/2020	3124-1	4:38 PM	69	Vehicle Pole/Tower Accident	1,148
08/16/2020	N/A - Bus outage, no transmission line outage	3:07 PM	69	Damaged Bus Insulator	0
08/19/2020	2015	1:27 AM	138	Guy Wire	1,112
09/07/2020	2209	1:21 PM	69	Insulator Failure	1,320
09/09/2020	2205	6:35 PM	69	Insulator Failure	0
10/06/2020	3124-1	1:36 AM	69	Station Power Failure	6
11/01/2020	3219	9:22 PM	69	Weather induced fall-in (outside ROW)	92
11/04/2020	2418	9:03 AM	69	Breaker/Recloser Failure	41
11/15/2020	2305	7:47 AM	69	Wind	575
11/15/2020	2430	12:32 PM	69	Weather induced fall-in (outside ROW)	1,666
11/15/2020	2343-1	1:34 PM	69	Other	277
11/15/2020	2343-4	2:38 PM	69	Wind	165
11/19/2020	2303	11:49 PM	69	Emergency Forced	1,282
11/22/2020	2334	7:10 PM	69	Pole Fire	756
11/30/2020	2335	5:45 PM	69	Static Wire	9,855

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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)
12/03/2020	3219	6:10 AM	69	Static Wire	328
12/07/2020	3201	8:33 AM	69	Failed AC Circuit Equipment	48
12/15/2020	2401	1:48 PM	69	Switch Or Fuse Fell Open	54
12/15/2020	2420	1:48 PM	69	Switch Or Fuse Fell Open	55
12/15/2020	2430	1:48 PM	69	Switch Or Fuse Fell Open	50
12/27/2020	2312-3	10:35 AM	69	Insulator Failure	1,387

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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
01/17/2020	940	54,520	2	201250010	624	36,192
01/17/2020	940	54,520	2	201250002	316	18,328
01/30/2020	2,503	320,384	2	206710015	1,195	152,960
01/30/2020	2,503	320,384	2	206710012	1,308	167,424
02/20/2020	5,474	392,193	5	200200018	674	48,528
02/20/2020	5,474	392,193	5	200200018	215	13,545
02/20/2020	5,474	392,193	5	200200034	1,192	85,824
02/20/2020	5,474	392,193	5	203710011	1,067	76,824
02/20/2020	5,474	392,193	5	203710012	1,229	88,488
02/20/2020	5,474	392,193	5	203710050	1,097	78,984
03/12/2020	10,328	433,248	20	201010086	759	25,806
03/12/2020	10,328	433,248	20	201160002	9	504
03/12/2020	10,328	433,248	20	201160018	477	26,712
03/12/2020	10,328	433,248	20	201160020	625	35,000
03/12/2020	10,328	433,248	20	201230018	1,171	52,695
03/12/2020	10,328	433,248	20	201230020	891	40,095
03/12/2020	10,328	433,248	20	201230022	285	12,825
03/12/2020	10,328	433,248	20	201230024	285	12,825
03/12/2020	10,328	433,248	20	201230112	331	14,895
03/12/2020	10,328	433,248	20	201310022	193	6,562
03/12/2020	10,328	433,248	20	201310023	336	11,424
03/12/2020	10,328	433,248	20	201310028	149	5,066
03/12/2020	10,328	433,248	20	201310029	470	15,980
03/12/2020	10,328	433,248	20	201450019	249	13,197
03/12/2020	10,328	433,248	20	201450046	440	23,320
03/12/2020	10,328	433,248	20	201450053	630	33,390
03/12/2020	10,328	433,248	20	201600002	646	21,964
03/12/2020	10,328	433,248	20	201600003	778	26,452
03/12/2020	10,328	433,248	20	201600012	570	19,380
03/12/2020	10,328	433,248	20	201600013	1,034	35,156
03/19/2020	3,351	40,212	2	206040053	1,235	14,820
03/19/2020	3,351	40,212	2	206040044	2,116	25,392
03/26/2020	11,964	363,662	7	200360276	3,082	92,460
03/26/2020	11,964	363,662	7	200360283	2,614	78,420
03/26/2020	11,964	363,662	7	200360291	1,526	45,780
03/26/2020	11,964	363,662	7	200360322	1,266	39,246
03/26/2020	11,964	363,662	7	200360323	1,846	57,226
03/26/2020	11,964	363,662	7	200880006	1,320	40,920
03/26/2020	11,964	363,662	7	200880009	310	9,610

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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
03/28/2020	6,584	533,304	6	202220052	1,022	82,782
03/28/2020	6,584	533,304	6	202220053	1,534	124,254
03/28/2020	6,584	533,304	6	202220075	698	56,538
03/28/2020	6,584	533,304	6	202220079	768	62,208
03/28/2020	6,584	533,304	6	202320014	1,067	86,427
03/28/2020	6,584	533,304	6	202320023	1,495	121,095
04/08/2020	2,094	2,084,994	2	201680021	984	984,984
04/08/2020	2,094	2,084,994	2	201680015	1,110	1,100,010
04/08/2020	8,579	67,431	5	201770021	970	7,760
04/08/2020	8,579	67,431	5	201770057	93	1,860
04/08/2020	8,579	67,431	5	201770057	93	651
04/08/2020	8,579	67,431	5	201770085	1,062	7,434
04/08/2020	8,579	67,431	5	201770113	1,801	14,408
04/08/2020	8,579	67,431	5	201770113	1,799	12,593
04/08/2020	8,579	67,431	5	201770124	1,699	15,291
04/08/2021	8,579	67,431	5	201770085	1,062	7,434
04/09/2020	2,188	37,196	2	210320014	1,114	18,938
04/09/2020	2,188	37,196	2	210320013	1,074	18,258
05/16/2020	4,357	444,414	3	206520019	2,358	240,516
05/16/2020	4,357	444,414	3	206520028	574	58,548
05/16/2020	4,357	444,414	3	206520010	1,425	145,350
05/20/2020	2,173	304,220	2	208230009	1,108	155,120
05/20/2020	2,173	304,220	2	208230019	1,065	149,100
05/22/2020	5,765	480,355	3	210110023	2,517	178,707
05/22/2020	5,765	480,355	3	210110015	1,728	157,248
05/22/2020	5,765	480,355	3	210110031	1,520	144,400
05/26/2020	6,008	514,208	3	200460077	2,324	185,920
05/26/2020	6,008	514,208	3	200460059	27	2,160
05/26/2020	6,008	514,208	3	200460068	720	66,960
05/26/2020	6,008	514,208	3	200460068	1,424	138,128
05/26/2020	6,008	514,208	3	200460068	1,513	121,040
05/29/2020	4,479	722,041	4	201300007	1,176	8,232
05/29/2020	4,479	722,041	4	201380013	1,586	461,526
05/29/2020	4,479	722,041	4	201380005	846	246,186
05/29/2020	4,479	722,041	4	201300008	871	6,097
06/01/2020	6,372	398,286	6	201680021	986	67,048
06/01/2020	6,372	398,286	6	203160002	159	6,042
06/01/2020	6,372	398,286	6	203160003	1,008	38,304
06/01/2020	6,372	398,286	6	201500052	1,561	106,148

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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
06/01/2020	6,372	398,286	6	201680015	1,117	75,956
06/01/2020	6,372	398,286	6	201500055	1,541	104,788
06/04/2020	9,842	337,189	11	203240007	120	1,440
06/04/2020	9,842	337,189	11	203240011	298	3,576
06/04/2020	9,842	337,189	11	203240037	726	8,712
06/04/2020	9,842	337,189	11	203240057	860	10,320
06/04/2020	9,842	337,189	11	203270006	687	59,082
06/04/2020	9,842	337,189	11	203270010	476	40,936
06/04/2020	9,842	337,189	11	203270043	1,032	9,288
06/04/2020	9,842	337,189	11	203270052	1,999	17,991
06/04/2020	9,842	337,189	11	203280006	1,792	91,392
06/04/2020	9,842	337,189	11	203280008	513	26,163
06/04/2020	9,842	337,189	11	203280013	1,339	68,289
06/09/2020	1,019	87,771	1	206380013	599	77,271
06/09/2020	1,019	87,771	1	206380013	420	10,500
06/09/2020	5,929	470,347	5	200790052	1,963	157,040
06/09/2020	5,929	470,347	5	200790061	518	41,958
06/09/2020	5,929	470,347	5	210050056	66	5,214
06/09/2020	5,929	470,347	5	200790034	1,043	81,354
06/09/2020	5,929	470,347	5	200790043	2,339	184,781
06/10/2020	13,718	385,974	9	205540013	1,738	88,638
06/10/2020	13,718	385,974	9	205540016	993	50,643
06/10/2020	13,718	385,974	9	204280016	1,504	67,680
06/10/2020	13,718	385,974	9	204280025	1,976	88,920
06/10/2020	13,718	385,974	9	205110051	1,165	17,475
06/10/2020	13,718	385,974	9	205110061	787	11,805
06/10/2020	13,718	385,974	9	205110017	1,803	27,045
06/10/2020	13,718	385,974	9	205190028	1,846	16,614
06/10/2020	13,718	385,974	9	205190019	1,906	17,154
06/14/2020	834	25,656	3	210860014	151	4,681
06/14/2020	834	25,656	3	210860013	674	20,894
06/14/2020	834	25,656	3	205400016	9	81
06/19/2020	3,886	251,869	4	202280012	941	79,044
06/19/2020	3,886	251,869	4	202280016	540	45,360
06/19/2020	3,886	251,869	4	202210017	852	45,156
06/19/2020	3,886	251,869	4	202210026	1,553	82,309
07/08/2020	2,706	213,414	4	205600021	324	23,328
07/08/2020	2,706	213,414	4	205600014	1,083	77,976
07/08/2020	2,706	213,414	4	205580020	2	2,556

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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
07/08/2020	2,706	213,414	4	205580020	66	20,922
07/08/2020	2,706	213,414	4	205580020	1,212	87,264
07/08/2020	2,706	213,414	4	205580028	19	1,368
07/09/2020	1,201	70,859	2	205220018	796	46,964
07/09/2020	1,201	70,859	2	205220027	405	23,895
07/09/2020	2,196	373,320	3	205590058	618	105,060
07/09/2020	2,196	373,320	3	205590067	926	157,420
07/09/2020	2,196	373,320	3	205590086	652	110,840
07/19/2020	6,790	495,670	6	208400053	1,528	111,544
07/19/2020	6,790	495,670	6	208400079	1,392	101,616
07/19/2020	6,790	495,670	6	208400061	1,316	96,068
07/19/2020	6,790	495,670	6	208400031	1,347	98,331
07/19/2020	6,790	495,670	6	208400022	923	67,379
07/19/2020	6,790	495,670	6	208400018	284	20,732
07/22/2020	2,810	19,329	3	206180003	1,068	8,544
07/22/2020	2,810	19,329	3	206260018	333	2,331
07/22/2020	2,810	19,329	3	206180002	1,409	8,454
07/27/2020	533	41,574	3	202010014	175	13,650
07/27/2020	533	41,574	3	202010033	30	2,340
07/27/2020	533	41,574	3	202010023	328	25,584
08/04/2020	2,707	235,145	4	205600021	324	22,356
08/04/2020	2,707	235,145	4	205600014	1,083	74,727
08/04/2020	2,707	235,145	4	205580020	1,181	81,489
08/04/2020	2,707	235,145	4	205580020	68	17,408
08/04/2020	2,707	235,145	4	205580020	23	26,496
08/04/2020	2,707	235,145	4	205580020	2	2,524
08/04/2020	2,707	235,145	4	205580020	4	5,048
08/04/2020	2,707	235,145	4	205580020	3	3,786
08/04/2020	2,707	235,145	4	205580028	19	1,311
08/16/2020	920	25,296	2	201360059	532	18,088
08/16/2020	920	25,296	2	201360059	294	4,410
08/16/2020	920	25,296	2	201360011	78	2,574
08/16/2020	920	25,296	2	201360011	16	224
08/19/2020	10,017	909,159	6	208110018	2,570	298,120
08/19/2020	10,017	909,159	6	208560012	1,988	137,172
08/19/2020	10,017	909,159	6	208110027	421	48,836
08/19/2020	10,017	909,159	6	208560028	1,519	104,811
08/19/2020	10,017	909,159	6	208110036	1,647	191,052
08/19/2020	10,017	909,159	6	208560041	1,872	129,168

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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
09/07/2020	1,411	114,291	2	201840013	806	65,286
09/07/2020	1,411	114,291	2	201840014	605	49,005
09/09/2020	2,473	630,885	2	201380013	1,581	248,217
09/09/2020	2,473	630,885	2	201380005	892	382,668
10/06/2020	2,706	27,060	4	205600014	1,082	10,820
10/06/2020	2,706	27,060	4	205580020	1,280	12,800
10/06/2020	2,706	27,060	4	205600021	325	3,250
10/06/2020	2,706	27,060	4	205580028	19	190
11/01/2020	7,755	563,482	5	204120023	2,436	216,804
11/01/2020	7,755	563,482	5	204120009	1,915	170,435
11/01/2020	7,755	563,482	5	204230047	1,634	84,968
11/01/2020	7,755	563,482	5	204230044	1,515	78,780
11/01/2020	7,755	563,482	5	204230056	255	12,495
11/04/2020	957	39,237	3	202010014	233	9,553
11/04/2020	957	39,237	3	202010023	693	28,413
11/04/2020	957	39,237	3	202010033	31	1,271
11/15/2020	4,997	627,945	3	204020013	2,198	180,236
11/15/2020	4,997	627,945	3	204040014	1,633	375,590
11/15/2020	4,997	627,945	3	204040013	425	65,450
11/15/2020	4,997	627,945	3	204040013	741	6,669
11/15/2020	2,869	1,703,486	4	207050003	651	378,882
11/15/2020	2,869	1,703,486	4	207130017	840	557,760
11/15/2020	2,869	1,703,486	4	207120017	806	464,256
11/15/2020	2,869	1,703,486	4	207180014	572	302,588
11/15/2020	6,166	2,576,051	4	200580026	604	166,100
11/15/2020	6,166	2,576,051	4	200620053	1,966	597,664
11/15/2020	6,166	2,576,051	4	200620062	1,871	563,171
11/15/2020	6,166	2,576,051	4	200580062	669	971,388
11/15/2020	6,166	2,576,051	4	200580062	1,056	277,728
11/15/2020	10,490	2,096,759	11	200580018	2,737	596,666
11/15/2020	10,490	2,096,759	11	200620012	1,524	377,952
11/15/2020	10,490	2,096,759	11	200580058	1,182	249,402
11/15/2020	10,490	2,096,759	11	200600032	798	130,074
11/15/2020	10,490	2,096,759	11	200600057	447	72,414
11/15/2020	10,490	2,096,759	11	200600023	437	70,357
11/15/2020	10,490	2,096,759	11	200600053	207	32,706
11/15/2020	10,490	2,096,759	11	200620016	1,373	343,250
11/15/2020	10,490	2,096,759	11	201840013	813	85,365
11/15/2020	10,490	2,096,759	11	200620010	367	91,383

**The Ohio Edison 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
11/15/2020	10,490	2,096,759	11	201840014	605	47,190
11/19/2020	1,179	115,390	2	204520404	1,103	108,094
11/19/2020	1,179	115,390	2	204520403	76	7,296
11/22/2020	1,084	138,712	2	210610013	58	8,410
11/22/2020	1,084	138,712	2	210610014	1,026	130,302
11/30/2020	3,176	374,768	2	204660403	1,844	217,592
11/30/2020	3,176	374,768	2	204660401	1,332	157,176
12/03/2020	13,747	748,615	9	204250074	1,580	112,180
12/03/2020	13,747	748,615	9	204250062	1,523	108,133
12/03/2020	13,747	748,615	9	204250026	1,495	106,145
12/03/2020	13,747	748,615	9	204250017	1,371	97,341
12/03/2020	13,747	748,615	9	204230047	1,638	49,140
12/03/2020	13,747	748,615	9	204230044	1,528	45,840
12/03/2020	13,747	748,615	9	204120009	1,918	97,818
12/03/2020	13,747	748,615	9	204120023	2,438	124,338
12/03/2020	13,747	748,615	9	204230056	256	7,680
12/07/2020	2,238	100,710	3	204590410	1,011	45,495
12/07/2020	2,238	100,710	3	204130063	38	1,710
12/07/2020	2,238	100,710	3	204590407	1,189	53,505
12/15/2020	1,510	83,050	5	206600005	52	2,860
12/15/2020	1,510	83,050	5	206640030	99	5,445
12/15/2020	1,510	83,050	5	206600002	328	18,040
12/15/2020	1,510	83,050	5	206640077	388	21,340
12/15/2020	1,510	83,050	5	206600003	643	35,365
12/15/2020	1,777	88,850	2	207180014	572	28,600
12/15/2020	1,777	88,850	2	207120017	1,205	60,250
12/15/2020	4,412	242,660	7	206560040	820	45,100
12/15/2020	4,412	242,660	7	206570006	1,122	61,710
12/15/2020	4,412	242,660	7	206560002	379	20,845
12/15/2020	4,412	242,660	7	206560044	1,299	71,445
12/15/2020	4,412	242,660	7	206560003	29	1,595
12/15/2020	4,412	242,660	7	206570003	581	31,955
12/15/2020	4,412	242,660	7	206570002	182	10,010
12/27/2020	2,179	126,054	2	208230009	247	7,410
12/27/2020	2,179	126,054	2	208230009	360	13,320
12/27/2020	2,179	126,054	2	208230009	507	33,969
12/27/2020	2,179	126,054	2	208230019	1,065	71,355

**The Ohio Edison Company
Rule 10 Report for 2020**

5.c. 4901:1-10-10(C)(2): Index Values During Transmission Outages

Outage Start Date	CAIDI During Outage	SAIFI During Outage
01/17/2020	58.00	0.0009
01/30/2020	128.00	0.0024
02/20/2020	71.60	0.0002
03/12/2020	41.95	0.0099
03/19/2020	12.00	0.0032
03/26/2020	30.40	0.0114
03/28/2020	81.00	0.0063
04/08/2020	995.70	0.0020
04/08/2020	7.86	0.0082
04/09/2020	17.00	0.0021
05/16/2020	102.00	0.0042
05/20/2020	140.00	0.0021
05/22/2020	83.32	0.0055
05/26/2020	85.59	0.0057
05/29/2020	161.21	0.0043
06/01/2020	62.51	0.0061
06/04/2020	34.26	0.0094
06/09/2020	86.13	0.0010
06/09/2020	79.33	0.0057
06/10/2020	28.14	0.0131
06/14/2020	30.76	0.0008
06/19/2020	64.81	0.0037
07/08/2020	78.87	0.0026
07/09/2020	59.00	0.0011
07/09/2020	170.00	0.0021
07/19/2020	73.00	0.0065
07/22/2020	6.88	0.0027
07/27/2020	78.00	0.0005
08/04/2020	86.87	0.0026
08/16/2020	27.50	0.0009
08/19/2020	90.76	0.0096
09/07/2020	81.00	0.0013
09/09/2020	255.11	0.0024
10/06/2020	10.00	0.0026
11/01/2020	72.66	0.0074
11/04/2020	41.00	0.0009
11/15/2020	125.66	0.0048
11/15/2020	593.76	0.0027
11/15/2020	417.78	0.0059
11/15/2020	199.88	0.0100
11/19/2020	97.87	0.0011
11/22/2020	127.96	0.0010

The Ohio Edison Company
Rule 10 Report for 2020

5.c. 4901:1-10-10(C)(2): Index Values During Transmission Outages

Outage Start Date	CAIDI During Outage	SAIFI During Outage
11/30/2020	118.00	0.0030
12/03/2020	54.46	0.0131
12/07/2020	45.00	0.0021
12/15/2020	55.00	0.0042
12/15/2020	55.00	0.0014
12/15/2020	50.00	0.0017
12/27/2020	57.85	0.0021

**The Ohio Edison 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	Customer Minutes Interrupted
Animal	3,506	151,628	12,998,788
Bird	1,443	27,174	2,117,878
Customer Equipment	28	220	26,124
Equipment Failure	1,832	151,193	15,826,184
Fire	20	8,377	1,151,793
Forced Outage	644	79,563	3,037,738
Human Error - Company	35	6,260	309,664
Human Error -Non-Company	66	7,742	719,407
Ice	5	331	48,850
Lightning	735	48,082	4,790,883
Line Failure	1,745	113,542	14,991,223
Object Contact With Line	31	3,560	395,503
Other Utility-Non Elec	3	7	2,930
Overload	49	1,618	138,030
Planned Outage	416	16,900	809,719
Previous Lightning	76	1,017	118,797
Switching Error	1	10	430
Trees - Sec/Service	656	2,339	728,860
Trees Off Row-Limb	673	39,468	3,888,831
Trees Off Row-Tree	1,615	135,001	21,221,416
Trees On Row	46	1,243	149,863
Ug Dig-Up	63	1,844	215,396
Unknown	681	40,089	3,264,084
Vandalism	20	74	10,662
Vehicle	585	92,413	11,024,692
Totals:	14,974	929,695	97,987,745

Notes:

**The Ohio Edison Company
Rule 10 Report for 2020**

6b. 4901:1-10-10(C)(3)(b): Data for Major Events Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	48	3,057	607,474
Bird	20	770	48,919
Call Error	7	550	547,979
Customer Equipment	11	203	95,316
Equipment Failure	323	40,945	23,925,673
Forced Outage	27	2,020	1,687,267
Human Error - Company	2	1	1,216
Human Error -Non-Company	1	45	53,280
Lightning	158	14,773	5,151,119
Line Failure	451	42,430	19,054,933
Object Contact With Line	14	694	504,250
Other Electric Utility	1	1,018	519,180
Overload	2	321	1,385,567
Planned Outage	3	43	9,000
Previous Lightning	9	172	36,364
Trees - Sec/Service	437	4,731	6,748,463
Trees Off Row-Limb	265	20,232	8,444,995
Trees Off Row-Tree	1,816	215,420	164,455,667
Trees On Row	38	2,242	1,284,775
Ug Dig-Up	1	6	426
Unknown	69	10,981	1,734,503
Vandalism	1	1	31
Vehicle	27	6,293	1,460,705
Wind	28	2,050	1,657,207
	3,759	368,998	239,414,309

Notes:

**The Ohio Edison Company
Rule 10 Report for 2020**

6c. 4901:1-10-10(C)(3)(c): Data for Transmission Outages Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Customer Equipment	3	4,357	444,414
Equipment Failure	64	51,999	4,390,997
Fire	2	1,179	115,390
Forced Outage	3	1,959	142,291
Human Error - Company	5	4,811	292,138
Human Error -Non-Company	1	1,561	106,148
Lightning	6	6,584	533,304
Line Failure	31	40,562	4,419,657
Trees Off Row-Limb	3	2,200	508,797
Trees Off Row-Tree	29	32,457	2,133,315
Trees On Row	2	2,094	2,084,994
Unknown	55	59,541	5,286,637
Vandalism	2	2,173	304,220
Vehicle	10	7,916	768,943
Totals:	216	219,393	21,531,245

Notes:

**The Ohio Edison Company
Rule 10 Report for 2020**

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

Total Number = 66

Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)	
Electric Distribution System Reliability)	Case No: 21-993-EL-ESS
Pursuant to Rule 4901:1-10(C))	

Pursuant to Rule 4901:1-10(C) of the Ohio Administrative Code,
The Cleveland Electric Illuminating Company
herby 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 of the Ohio Administrative Code.



Signature

Mark A. Jones

Printed Name

Regional President

Title

3/25/2021

Date

**The Cleveland Electric Illuminating 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>
135.00	117.94	344.80

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>
1.30	0.97	1.58

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

Customers	CI	CI	CMI	CMI
<u>Served</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>
735,260	710,855	1,158,212	83,839,750	399,352,801

Notes:

CI = Customer Interruptions
CMI = Customer Minutes Interrupted

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2020**

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

Date	Description	CI	CMI	CAIDI	SAIFI
06/10/2020	Thunderstorms	38,765	18,570,142	479.04	0.0527
11/01/2020	High Winds	99,470	24,842,802	249.75	0.1353
11/15/2020	Thunderstorms	122,455	119,805,253	978.36	0.1665
12/01/2020	Snow	167,925	140,580,589	837.16	0.2284
Totals		428,615	303,798,786		

Notes:

The Cleveland Electric Illuminating 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)
07/01/2020	4027	7:26 PM	138	Relay Design Incorrect (Human Error - Eng)	5
11/17/2020	4037	4:53 PM	138	Insulator Failure	156
12/1/2020	4008	3:47 PM	138	Weather Induced Fall-In (Outside ROW)	1
12/1/2020	4070	4:42 PM	138	Weather - Excluding Lightning	71

Notes:

**The Cleveland Electric Illuminating 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
07/01/2020	2,010	80,400	1	400240002	2,010	80,400
11/17/2020	1,910	19,100	1	400670003	1,910	19,100
12/01/2020	14,558	11,592,061	9	401240006	675	1,366,875
12/01/2020	14,558	11,592,061	9	401230004	3,242	2,924,284
12/01/2020	14,558	11,592,061	9	401230005	1,539	1,283,526
12/01/2020	14,558	11,592,061	9	401270003	971	872,929
12/01/2020	14,558	11,592,061	9	401230007	1,660	1,361,200
12/01/2020	14,558	11,592,061	9	401270002	2,084	1,765,148
12/01/2020	14,558	11,592,061	9	401230006	2,742	1,628,748
12/01/2020	14,558	11,592,061	9	401270001	1,516	371,420
12/01/2020	14,558	11,592,061	9	401240008	129	17,931
12/01/2020	264	22,704	1	402390014	264	22,704

The Cleveland Electric Illuminating Company
Rule 10 Report for 2020

5.c. 4901:1-10-10(C)(2): Index Values During Transmission Outages

Outage Start Date	CAIDI During Outage	SAIFI During Outage
07/01/2020	40.00	0.0027
11/17/2020	10.00	0.0026
12/1/2020	796.27	0.0198
12/1/2020	86.00	0.0004

Notes:

**The Cleveland Electric Illuminating 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	Customer Minutes Interrupted
Animal	643	52,940	4,134,035
Bird	157	1,166	177,975
Call Error	2	86	1,450
Contamination	9	38	5,594
Customer Equipment	19	125	30,675
Equipment Failure	2,282	168,975	17,389,545
Fire	30	4,257	491,227
Forced Outage	455	60,077	3,427,965
Human Error - Company	20	7,051	279,136
Human Error -Non-Company	29	812	81,471
Ice	3	138	41,346
Lightning	58	2,788	1,101,015
Line Failure	2,860	165,225	23,772,386
Object Contact With Line	45	3,549	366,388
Other Electric Utility	2	104	18,591
Other Utility-Non Elec	2	72	5,160
Overload	16	5,299	158,459
Planned Outage	189	4,350	634,118
Previous Lightning	2	47	3,915
Switching Error	9	5,825	54,550
Trees - Sec/Service	451	2,864	770,822
Trees Off Row-Limb	353	30,137	4,366,271
Trees Off Row-Tree	630	75,773	14,407,081
Trees On Row	269	20,847	3,677,643
Ug Dig-Up	44	1,070	211,853
Unknown	434	52,610	3,264,092
Vandalism	12	23	3,381
Vehicle	179	44,332	4,856,700
Wind	23	275	106,906
Totals:	9,227	710,855	83,839,750

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2020**

6b. 4901:1-10-10(C)(3)(b): Data for Major Events Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	6	55	10,463
Bird	1	177	2,124
Call Error	14	2,076	2,563,796
Contamination	1	1	4,165
Customer Equipment	7	315	269,490
Equipment Failure	465	135,392	65,222,290
Fire	2	910	42,521
Forced Outage	19	6,252	2,596,786
Human Error - Company	2	1,010	1,179,380
Human Error -Non-Company	1	1	3,815
Ice	26	1,874	2,454,983
Lightning	7	687	258,276
Line Failure	338	46,355	41,137,294
Object Contact With Line	6	157	255,553
Previous Lightning	1	139	172,082
Trees - Sec/Service	139	1,272	1,410,257
Trees Off Row-Limb	139	33,871	28,782,796
Trees Off Row-Tree	340	56,728	58,399,496
Trees On Row	227	57,330	42,758,540
Unknown	234	31,955	23,536,977
Vandalism	2	109	140,956
Vehicle	4	778	251,268
Wind	282	51,171	32,345,478
Totals:	2,263	428,615	303,798,786

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2020**

6c. 4901:1-10-10(C)(3)(c): Data for Transmission Outages Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Equipment Failure	7	11,092	7,609,813
Line Failure	1	675	1,366,875
Overload	1	2,010	80,400
Unknown	2	2,881	892,029
Wind	1	2,084	1,765,148
Totals:	12	18,742	11,714,265

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2020**

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

Total Number = 1,291

Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 21-993-EL-ESS
Pursuant to Rule 4901:1-10(C))

Pursuant to Rule 4901:1-10(C) of the Ohio Administrative Code,
The Toledo Edison Company
herby 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 of the Ohio Administrative Code.



Signature

Richard Sweeney

Printed Name

Regional President

Title

3/25/2021

Date

**The Toledo Edison 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>
112.30	97.56	128.50

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>
1.00	0.64	0.80

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

Customers	CI	CI	CMI	CMI
<u>Served</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>	<u>After Exclusions</u>	<u>Before Exclusions</u>
305,551	196,996	243,907	19,218,745	31,352,275

Notes:

CI = Customer Interruptions
CMI = Customer Minutes Interrupted

The Toledo Edison Company
Rule 10 Report for 2020

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

Date	Description	CI	CMI	CAIDI	SAIFI
06/10/2020	Thunderstorms	6,738	3,165,139	469.74	0.0221
06/27/2020	Rain/Wind	6,617	1,517,223	229.29	0.0217
09/30/2020	Thunderstorms	5,526	2,283,367	413.20	0.0181
11/15/2020	Thunderstorms	11,384	3,370,971	296.11	0.0373
	Totals	30,265	10,336,700		

Notes:

**The Toledo Edison 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)
05/10/2020	3115	3:18 PM	69	Relay Design Incorrect (Human Error - Eng)	2,851
05/22/2020	3148	5:58 PM	69	Relay Settings-Engineering Issued	33
06/10/2020	3121	3:17 PM	69	Pole Failure	134
07/03/2020	3027-2	4:05 PM	138	Conductor Failure	1,498
10/12/2020	3152	9:23 PM	69	Emergency Forced	1,269
11/15/2020	3025	11:18 AM	138	Wind	5,813

Notes:

**The Toledo Edison 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
05/10/2020	6,872	733,084	7	500271278	1,019	11,209
05/10/2020	6,872	733,084	7	500271277	619	6,809
05/10/2020	6,872	733,084	7	500711203	723	229,191
05/10/2020	6,872	733,084	7	500711389	759	188,232
05/10/2020	6,872	733,084	7	500711389	307	84,118
05/10/2020	6,872	733,084	7	500712000	180	60,660
05/10/2020	6,872	733,084	7	500712000	141	49,773
05/10/2020	6,872	733,084	7	500611159	883	37,969
05/10/2020	6,872	733,084	7	500611160	679	29,197
05/10/2020	6,872	733,084	7	500611160	679	15,617
05/10/2020	6,872	733,084	7	500611159	883	20,309
05/22/2020	2,393	78,969	4	500751274	535	17,655
05/22/2020	2,393	78,969	4	500751273	1,043	34,419
05/22/2020	2,393	78,969	4	500471134	572	18,876
05/22/2020	2,393	78,969	4	500471133	243	8,019
06/10/2020	2,124	296,346	4	500161284	892	119,528
06/10/2020	2,124	296,346	4	500171309	450	60,300
06/10/2020	2,124	296,346	4	500421190	605	90,145
06/10/2020	2,124	296,346	4	500421191	177	26,373
07/03/2020	1,947	218,064	2	500511125	823	92176
07/03/2020	1,947	218,064	2	500511124	1,124	125,888
10/12/2020	558	89,280	1	500351195	558	89,280
11/15/2020	2,752	381,087	2	500651118	1,311	182229
11/15/2020	2,752	381,087	2	500651119	1,441	198858

The Toledo Edison Company
Rule 10 Report for 2020

5.c. 4901:1-10-10(C)(2): Index Values During Transmission Outages

Outage Start Date	CAIDI During Outage	SAIFI During Outage
05/10/2020	106.68	0.0033
05/22/2020	33.00	0.0018
06/10/2020	139.52	0.0029
07/03/2020	112.00	0.0027
10/12/2020	160.00	0.0018
11/15/2020	138.48	0.0043

Notes:

**The Toledo Edison 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	Customer Minutes Interrupted
Animal	612	7,903	575,992
Bird	205	1,681	139,625
Customer Equipment	3	6	1,929
Equipment Failure	625	33,243	3,687,364
Fire	10	184	22,021
Forced Outage	253	29,021	791,125
Human Error - Company	17	1,001	21,595
Human Error -Non-Company	33	575	57,597
Ice	1	1	37
Lightning	66	10,317	1,238,115
Line Failure	822	26,985	2,910,455
Object Contact With Line	29	3,672	449,124
Overload	5	168	15,351
Planned Outage	15	175	21,356
Previous Lightning	1	1	188
Trees - Sec/Service	312	551	125,170
Trees Off Row-Limb	136	9,471	1,119,753
Trees Off Row-Tree	137	15,712	2,547,820
Trees On Row	50	2,100	202,666
Ug Dig-Up	31	337	65,835
Unknown	490	22,713	1,732,169
Vandalism	11	103	8,986
Vehicle	162	30,381	3,379,547
Wind	19	695	104,925
Totals:	4,045	196,996	19,218,745

Notes:

**The Toledo Edison Company
Rule 10 Report for 2020**

6b. 4901:1-10-10(C)(3)(b): Data for Major Events Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	9	48	19,165
Bird	2	2	180
Equipment Failure	60	3,630	709,256
Forced Outage	4	78	9,958
Lightning	3	71	18,194
Line Failure	40	426	205,345
Object Contact With Line	4	261	209,521
Other Electric Utility	1	9	4,239
Overload	1	8	728
Trees - Sec/Service	91	174	135,118
Trees Off Row-Limb	70	6,414	1,777,954
Trees Off Row-Tree	94	11,577	4,594,552
Trees On Row	12	284	86,045
Unknown	34	1,430	227,972
Vehicle	1	11	6,391
Wind	64	5,842	2,332,082
Totals:	490	30,265	10,336,700

Notes:

The Toledo Edison Company
Rule 10 Report for 2020

6c. 4901:1-10-10(C)(3)(c): Data for Transmission Outages Only

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Line Failure	1	558	89,280
Object Contact With Line	9	6,872	733,084
Unknown	6	4,340	297,033
Wind	6	4,876	677,433
Totals:	22	16,646	1,796,830

Notes:

**The Toledo Edison Company
Rule 10 Report for 2020**

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

Total Number = 166

Notes:

This foregoing document was electronically filed with the Public Utilities

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in

Case No(s). 21-0993-EL-ESS

Summary: Annual Report In the matter of the application of the Annual Report of FirstEnergy Companies filed pursuant to Rule 10 of the Electric Service and Safety Standards, Ohio Administrative Code 4901:1-10-10 electronically filed by Karen A Sweeney on behalf of Danford, Emily V and Ohio Edison Company and The Cleveland Electric Illuminating Company and The Toledo Edison Company