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March 31, 2022

Ms. Tanowa Troupe
Director, Administration Department
Commission Secretary
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
Ohio Administrative Code Section 4901:1-10-10
Case No. 22-0993-EL-ESS***

Dear Ms. Troupe:

Enclosed for filing please find the FirstEnergy Companies' Annual Report in the above referenced proceeding filed pursuant to Ohio Administrative Code Section 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.

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of	)	
Electric Distribution System Reliability	)	Case No: 22-0993-EL-ESS
Pursuant to Rule 4901:1-10(C)	)	

Pursuant to Rule 4901:1-10(C) of the Ohio Administrative Code,
The Ohio Edison Company
herby submits the attached annual report for the year 2021.

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

Edward L. Shuttleworth

Printed Name

President, Ohio Operations

Title

3/30/2022

Date

**The Ohio Edison Company
Rule 10 Report for 2021**

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	102.12	115.65

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	0.97	1.40

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>
1,049,301	1,016,260	1,472,742	103,777,107	170,321,563

Notes:

The Ohio Edison Company
Rule 10 Report for 2021

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

Date	Description	CI	CMI	CAIDI	SAIFI
12/11/2021	Wind	33,922	10,989,814	323.97	0.0323
08/11/2021	Thunderstorms	60,187	19,265,514	320.09	0.0574
03/26/2021	Wind	74,694	19,372,961	259.36	0.0712
Totals		168,803	49,628,289		

Notes:

The Ohio Edison Company
Rule 10 Report for 2021

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)
01/12/2021	2426-1	09:41	69	Emergency Forced	67
01/21/2021	2406-2	06:33	69	Conductor Failure	199
01/21/2021	2426-1	06:33	69	Loss of Supply	199
01/21/2021	2426-1	06:33	69	Loss of Supply	199
02/14/2021	N/A - Bus outage, no transmission outage	10:20	23	Loss of Supply	58
02/14/2021	2009-2	10:23	69	Pole Fire	598
03/06/2021	3221	01:17	69	Vehicle Pole/Tower Accident	145
03/10/2021	2418	11:07	69	FE Switching Error Field	16
03/10/2021	2431	11:07	69	FE Switching Error Field	21
03/10/2021	2429	11:07	69	FE Switching Error Field	19
03/10/2021	2418	11:07	69	FE Switching Error Field	16
03/10/2021	2431	11:07	69	FE Switching Error Field	21
03/10/2021	2418	11:07	69	FE Switching Error Field	16
03/18/2021	2209	04:59	69	Cross Arm Failure	538
03/18/2021	3220	09:31	69	Pole Fire	2,110
03/18/2021	2040	11:38	138	Pilot Communication Channel	48
03/18/2021	2318-1	11:38	69	Unknown After Exhaustive Patrol or Investigation	120
03/18/2021	2040	12:45	138	Relay Failure	23
03/18/2021	2427-1	15:44	69	Insulator Failure	5,355
03/18/2021	2429	15:44	69	Insulator Failure	5,385
03/26/2021	2426-1	05:12	69	Insulator Failure	553
03/30/2021	2231-1	15:14	69	Fall-ins (outside ROW) (not due to Nat Dis or Human Error)	108
04/08/2021	2335	18:30	69	Pole Fire	2,953
04/09/2021	2105	18:33	138	Relay Failure	1
04/15/2021	2309	00:44	69	Insulator Failure	22
04/15/2021	N/A - Miscoded, no transmission outage	11:39	34.5	Miscoded - Human Error During Maintenance	34
04/15/2021	N/A - Miscoded, no transmission outage	11:39	34.5	Miscoded - Human Error During Maintenance	19
04/15/2021	N/A - Miscoded, no transmission outage	11:39	34.5	Miscoded - Human Error During Maintenance	23
04/15/2021	2309	16:02	69	Insulator Failure	301
04/20/2021	3140	23:54	69	Emergency Forced	1,914
04/29/2021	2209	01:43	69	Insulator Failure	544
04/29/2021	2429	10:32	69	Cross Arm Failure	4,870
05/20/2021	2436	13:33	69	Customer/Other Utility	336
05/20/2021	2424	15:22	69	Emergency Forced	13
05/28/2021	3140	13:19	69	Conductor Splice Failure	464
06/09/2021	N/A - Bus outage, no transmission outage	19:24		Insulator Failure	0
06/18/2021	2340	11:18	69	Jumper Or Tap Failure	0

The Ohio Edison Company
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07/16/2021	2312-3	07:31	69	Cross Arm Failure	502
07/17/2021	2207	00:17	69	Conductor Failure	2,444
08/06/2021	2418	23:44	69	Conductor Failure	3
08/09/2021	2426-1	16:26	69	Fall-ins (outside ROW) (not due to Nat Dis or Human Error)	2,563
08/09/2021	2205	23:05	69	Vehicle Pole/Tower Accident	0
08/13/2021	3055	20:01	138	Breaker/Recloser Failure	4
08/21/2021	2209	17:46	69	Cross Arm Brace Failure	862
10/09/2021	N/A - Bus outage, no transmission outage	05:20		Insulator Failure	0
10/10/2021	N/A - Transformer failure, no transmission outage	08:50		CT Failure	0
10/11/2021	2402	12:23	69	Emergency Forced	251
10/21/2021	3124-1	23:42	69	Vehicle - Guy Wire	969
11/03/2021	2312	16:23	69	Human Error	104
11/15/2021	2210	05:40	69	Cross Arm Failure	613

Notes:

**The Ohio Edison Company
Rule 10 Report for 2021**

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
01/12/2021	133	2,891	2	206690009	66	1,125
01/12/2021	133	2,891	2	206690008	67	1,766
01/21/2021	1,091	8,330	6	206690074	204	2,064
01/21/2021	1,463	3,259	6	206150013	144	32
01/21/2021	1,463	3,259	6	206150013	392	138
01/21/2021	1,463	3,259	6	206150013	370	63
01/21/2021	1,463	3,259	6	206150013	225	11
01/21/2021	1,091	8,330	6	206690008	188	1,768
01/21/2021	1,091	8,330	6	206710012	166	1,321
01/21/2021	1,091	8,330	6	206710015	166	1,195
01/21/2021	1,463	3,259	6	206190005	166	1,672
01/21/2021	1,463	3,259	6	206190010	166	1,343
01/21/2021	1,091	8,330	6	206690008	166	1,768
01/21/2021	1,091	8,330	6	206690054	201	214
02/03/2021	72	6,462	4	201120015	18	689
02/03/2021	72	6,462	4	201120053	18	3,611
02/03/2021	72	6,462	4	201120014	18	983
02/03/2021	72	6,462	4	201120013	18	1,179
02/14/2021	739	3,645	10	201190077	124	516
02/14/2021	739	3,645	10	201130070	58	162
02/14/2021	739	3,645	10	201670016	58	50
02/14/2021	739	3,645	10	201190077	151	2,668
02/14/2021	739	3,645	10	201130069	58	18
02/14/2021	739	3,645	10	201130063	58	20
02/14/2021	739	3,645	10	201130057	58	30
02/14/2021	739	3,645	10	201130058	58	153
02/14/2021	739	3,645	10	201190092	58	20
02/14/2021	739	3,645	10	201190096	58	8
02/14/2021	845	386	2	201280025	423	202
02/14/2021	845	386	2	201280016	422	184
03/06/2021	1,833	3,344	6	204240027	142	748
03/06/2021	1,833	3,344	6	204240017	142	780
03/06/2021	1,833	3,344	6	204060016	142	419
03/06/2021	1,833	3,344	6	204240036	142	729
03/06/2021	1,833	3,344	6	204070021	1,085	310
03/06/2021	1,833	3,344	6	204070021	180	358
03/10/2021	64	3,883	4	202280016	16	539
03/10/2021	64	3,883	4	202210017	16	851
03/10/2021	63	2,322	3	202090014	21	1,103

**The Ohio Edison 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
03/10/2021	63	2,322	3	202090023	21	1,046
03/10/2021	18	677	1	202270011	18	677
03/10/2021	64	3,883	4	202280012	16	939
03/10/2021	63	2,322	3	202090034	21	173
03/10/2021	64	3,883	4	202210026	16	1,554
03/18/2021	92	1,432	2	201840014	46	608
03/18/2021	92	1,432	2	201840013	46	824
03/18/2021	1,927	15,904	16	204080058	26	858
03/18/2021	1,927	15,904	16	204060016	34	478
03/18/2021	1,927	15,904	16	204050049	34	624
03/18/2021	1,927	15,904	16	204160025	34	2,245
03/18/2021	1,927	15,904	16	204160024	34	2,385
03/18/2021	1,927	15,904	16	204080049	26	2,303
03/18/2021	1,927	15,904	16	204060025	34	992
03/18/2021	1,927	15,904	16	204160026	34	1,705
03/18/2021	1,927	15,904	16	204050402	34	1,002
03/18/2021	1,927	15,904	16	204050040	34	1,107
03/18/2021	1,927	15,904	16	204050401	34	1,237
03/18/2021	1,927	15,904	16	204060034	34	173
03/18/2021	1,927	15,904	16	204690031	287	499
03/18/2021	1,927	15,904	16	204160027	377	59
03/18/2021	1,927	15,904	16	204160027	116	128
03/18/2021	1,927	15,904	16	204160027	755	109
03/18/2021	284	11,276	8	200720016	48	1,165
03/18/2021	284	11,276	8	200720042	48	890
03/18/2021	284	11,276	8	200720043	48	1,736
03/18/2021	284	11,276	8	200720014	48	1,847
03/18/2021	155	10,701	5	200730063	31	1,443
03/18/2021	155	10,701	5	200730053	31	3,148
03/18/2021	155	10,701	5	200730082	31	2,386
03/18/2021	155	10,701	5	200730110	31	1,503
03/18/2021	155	10,701	5	200730096	31	2,221
03/18/2021	284	11,276	8	200720014	23	1,847
03/18/2021	284	11,276	8	200720043	23	1,736
03/18/2021	284	11,276	8	200720016	23	1,165
03/18/2021	284	11,276	8	200720042	23	890
03/18/2021	102	2,814	3	206180002	34	1,412
03/18/2021	102	2,814	3	206180003	34	1,070
03/18/2021	102	2,814	3	206260018	34	332

**The Ohio Edison Company
Rule 10 Report for 2021**

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
03/18/2021	138	3,079	3	206120006	46	1,337
03/18/2021	138	3,079	3	206120056	46	1,038
03/18/2021	138	3,079	3	206120014	46	704
03/26/2021	12	2,516	2	206710015	6	1,191
03/26/2021	12	2,516	2	206710012	6	1,325
03/30/2021	258	6,180	6	201560012	11	1,847
03/30/2021	258	6,180	6	201660004	19	344
03/30/2021	258	6,180	6	201660007	19	1,218
03/30/2021	258	6,180	6	201560014	11	1,668
03/30/2021	258	6,180	6	201560013	11	445
03/30/2021	258	6,180	6	201660007	187	658
04/08/2021	537	3,152	2	204660403	243	1,842
04/08/2021	537	3,152	2	204660401	294	1,310
04/09/2021	330	1	1	206010008	330	1
04/15/2021	1,026	28,470	20	210070033	6	4,172
04/15/2021	1,026	28,470	20	210300028	6	414
04/15/2021	1,026	28,470	20	210070009	6	3,185
04/15/2021	1,026	28,470	20	210300020	6	1,778
04/15/2021	1,026	28,470	20	200760009	22	429
04/15/2021	1,026	28,470	20	200760065	22	71
04/15/2021	1,026	28,470	20	200760004	22	2,053
04/15/2021	1,026	28,470	20	200760083	22	9
04/15/2021	1,026	28,470	20	200760053	22	1,459
04/15/2021	1,026	28,470	20	200760094	22	665
04/15/2021	272	8,997	8	206380013	34	1,029
04/15/2021	46	1,616	2	206060003	23	782
04/15/2021	40	2,217	2	206110020	20	1,083
04/15/2021	40	2,217	2	206110007	20	1,134
04/15/2021	46	1,616	2	206060004	23	834
04/15/2021	272	8,997	8	206130065	34	1,746
04/15/2021	272	8,997	8	206130057	34	2,274
04/15/2021	272	8,997	8	206130018	34	1,228
04/15/2021	272	8,997	8	206380026	34	1,597
04/15/2021	272	8,997	8	206380035	34	570
04/15/2021	272	8,997	8	206380054	34	360
04/15/2021	272	8,997	8	206130027	34	193
04/15/2021	1,026	28,470	20	210300020	21	1,778
04/15/2021	1,026	28,470	20	210070009	21	3,185
04/15/2021	1,026	28,470	20	210070033	21	4,172

**The Ohio Edison Company
Rule 10 Report for 2021**

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
04/15/2021	1,026	28,470	20	210300028	21	414
04/15/2021	1,026	28,470	20	200760053	52	1,459
04/15/2021	1,026	28,470	20	200760004	90	2,053
04/15/2021	1,026	28,470	20	200760009	142	429
04/15/2021	1,026	28,470	20	200760083	107	9
04/15/2021	1,026	28,470	20	200760065	183	71
04/15/2021	1,026	28,470	20	200760094	212	665
04/20/2021	28	3,688	2	205190019	14	1,843
04/20/2021	28	3,688	2	205190028	14	1,845
04/29/2021	218	1,435	2	201840014	109	608
04/29/2021	218	1,435	2	201840013	109	827
04/29/2021	1,005	5,891	7	206180003	138	1,070
04/29/2021	1,005	5,891	7	206260018	323	332
04/29/2021	1,005	5,891	7	206180002	298	1,116
04/29/2021	1,005	5,891	7	206180002	183	297
04/29/2021	1,005	5,891	7	206120056	21	1,035
04/29/2021	1,005	5,891	7	206120014	21	704
04/29/2021	1,005	5,891	7	206120006	21	1,337
05/20/2021	238	3,063	2	207110003	119	1,091
05/20/2021	238	3,063	2	207110002	119	1,972
05/20/2021	36	4,355	3	206520019	12	2,359
05/20/2021	36	4,355	3	206520028	12	582
05/20/2021	36	4,355	3	206520010	12	1,414
05/28/2021	267	24,551	16	204280025	7	1,978
05/28/2021	267	24,551	16	204280016	7	1,492
05/28/2021	267	24,551	16	205540013	75	1,556
05/28/2021	267	24,551	16	205540016	75	991
05/28/2021	267	24,551	16	205190028	7	1,847
05/28/2021	267	24,551	16	205190019	7	1,903
05/28/2021	267	24,551	16	205110017	11	1,805
05/28/2021	267	24,551	16	205110051	11	1,185
05/28/2021	267	24,551	16	205110061	11	803
05/28/2021	267	24,551	16	205190019	8	1,903
05/28/2021	267	24,551	16	205110061	8	803
05/28/2021	267	24,551	16	205190028	8	1,847
05/28/2021	267	24,551	16	205110017	8	1,805
05/28/2021	267	24,551	16	204280016	8	1,492
05/28/2021	267	24,551	16	204280025	8	1,956
05/28/2021	267	24,551	16	205110051	8	1,185

**The Ohio Edison Company
Rule 10 Report for 2021**

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
06/09/2021	1,103	15,721	22	201230020	11	898
06/09/2021	1,103	15,721	22	201230024	11	559
06/09/2021	1,103	15,721	22	201310028	11	146
06/09/2021	1,103	15,721	22	201230018	11	1,169
06/09/2021	1,103	15,721	22	201310023	11	329
06/09/2021	1,103	15,721	22	201310029	11	467
06/09/2021	1,103	15,721	22	201310022	11	193
06/09/2021	1,103	15,721	22	201230112	11	341
06/09/2021	1,103	15,721	22	201600013	31	1,036
06/09/2021	1,103	15,721	22	201600012	31	1,219
06/09/2021	1,103	15,721	22	201160002	61	7
06/09/2021	1,103	15,721	22	201010332	78	105
06/09/2021	1,103	15,721	22	201010348	78	616
06/09/2021	1,103	15,721	22	201010322	78	2,336
06/09/2021	1,103	15,721	22	201010291	78	321
06/09/2021	1,103	15,721	22	201010300	78	2,803
06/09/2021	1,103	15,721	22	201450046	129	431
06/09/2021	1,103	15,721	22	201450019	129	268
06/09/2021	1,103	15,721	22	201450053	129	611
06/09/2021	1,103	15,721	22	201160020	52	623
06/09/2021	1,103	15,721	22	201160018	52	487
06/09/2021	1,103	15,721	22	201010086	11	756
06/18/2021	172	2,677	4	200200034	63	1,192
06/18/2021	172	2,677	4	200200018	63	710
06/18/2021	172	2,677	4	200200034	23	559
06/18/2021	172	2,677	4	200200018	23	216
07/16/2021	135	2,191	4	208230019	65	1,070
07/16/2021	135	2,191	4	208230009	27	367
07/16/2021	135	2,191	4	208230009	24	507
07/16/2021	135	2,191	4	208230009	19	247
07/17/2021	180	10,034	10	201630003	18	323
07/17/2021	180	10,034	10	201360059	18	827
07/17/2021	180	10,034	10	201360044	18	482
07/17/2021	180	10,034	10	201630004	18	698
07/17/2021	180	10,034	10	201360010	18	1,118
07/17/2021	180	10,034	10	201360011	18	95
07/17/2021	180	10,034	10	201830018	18	1,935
07/17/2021	180	10,034	10	201830010	18	2,851
07/17/2021	180	10,034	10	201630072	18	892

**The Ohio Edison Company
Rule 10 Report for 2021**

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
07/17/2021	180	10,034	10	201630007	18	813
08/06/2021	1,370	1,478	3	202280012	246	652
08/06/2021	1,370	1,478	3	202280012	337	288
08/06/2021	1,370	1,478	3	202280016	787	538
08/09/2021	28	2,528	2	206710015	14	1,201
08/09/2021	28	2,528	2	206710012	14	1,327
08/09/2021	32	4,487	4	201300008	8	834
08/09/2021	32	4,487	4	201380013	8	1,580
08/09/2021	32	4,487	4	201300007	8	1,183
08/09/2021	32	4,487	4	201380005	8	890
08/13/2021	63	2,540	1	205510097	63	2,540
08/21/2021	72	1,437	2	201840013	36	827
08/21/2021	72	1,437	2	201840014	36	610
10/09/2021	666	4,100	4	200450020	185	2,048
10/09/2021	666	4,100	4	200450056	93	520
10/09/2021	666	4,100	4	200450010	199	861
10/09/2021	666	4,100	4	200450025	189	671
10/10/2021	94	2,268	2	201560014	81	1,164
10/10/2021	94	2,268	2	201560012	13	1,104
10/11/2021	810	9,564	6	202100020	240	372
10/11/2021	810	9,564	6	202100023	168	1,345
10/11/2021	810	9,564	6	202100072	240	2,001
10/11/2021	810	9,564	6	202340036	54	944
10/11/2021	810	9,564	6	202340020	54	3,162
10/11/2021	810	9,564	6	202340028	54	1,740
10/21/2021	11	185	1	210141307	11	185
11/03/2021	208	4,677	2	210300028	104	407
11/03/2021	208	4,677	2	210300020	104	4,270
11/15/2021	1,428	2,971	6	201640006	173	1,114
11/15/2021	1,428	2,971	6	201280025	81	195
11/15/2021	1,428	2,971	6	201280016	81	351
11/15/2021	1,428	2,971	6	201640005	221	551
11/15/2021	1,428	2,971	6	201640005	611	409
11/15/2021	1,428	2,971	6	201640005	261	351

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

Outage Start Date	CAIDI During Outage	SAIFI During Outage
01/12/2021	21.74	0.00012675
01/21/2021	2.23	0.00139426
01/21/2021	7.64	0.00103974
02/03/2021	89.75	0.00006862
02/14/2021	0.46	0.00080530
02/14/2021	4.93	0.00070428
03/06/2021	1.82	0.00174688
03/10/2021	60.67	0.00006099
03/10/2021	37.61	0.00001715
03/10/2021	36.86	0.00006004
03/18/2021	15.57	0.00008768
03/18/2021	8.25	0.00183646
03/18/2021	39.70	0.00027066
03/18/2021	69.04	0.00014772
03/18/2021	27.59	0.00009721
03/18/2021	22.31	0.00013152
03/26/2021	209.67	0.00001144
03/30/2021	23.95	0.00024588
04/08/2021	5.87	0.00051177
04/09/2021	0.00	0.00031450
04/15/2021	27.75	0.00097779
04/15/2021	55.43	0.00003812
04/15/2021	35.13	0.00004384
04/15/2021	33.08	0.00025922
04/20/2021	131.71	0.00002668
04/29/2021	5.86	0.00095778
04/29/2021	6.58	0.00020776
05/20/2021	12.87	0.00022682
05/20/2021	120.97	0.00003431
05/28/2021	91.95	0.00025446
06/09/2021	14.25	0.00105118
06/18/2021	15.56	0.00016392
07/16/2021	16.23	0.00012866
07/17/2021	55.74	0.00017154
08/06/2021	1.08	0.00130563
08/09/2021	90.29	0.00002668
08/09/2021	140.22	0.00003050
08/13/2021	40.32	0.00006004
08/21/2021	19.96	0.00006862
10/09/2021	6.16	0.00063471

The Ohio Edison Company
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10/10/2021	24.13	0.00008958
10/11/2021	11.81	0.00077194
10/21/2021	16.82	0.00001048
11/03/2021	22.49	0.00019823
11/15/2021	2.08	0.00136091

Notes:

**The Ohio Edison Company
Rule 10 Report for 2021**

6a. 4901:1-10-10(C)(3)(a): Data Excluding Major Events and Transmission Outages

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	3,622	148,269	12,728,477
Bird	1,557	31,213	3,515,815
Call Error	1	1	35
Customer Equipment	29	148	19,843
Equipment Failure	1,593	106,426	11,114,818
Fire	13	2,278	442,839
Forced Outage	519	53,854	2,488,682
Human Error - Company	42	9,030	108,815
Human Error -Non-Company	57	8,553	477,465
Ice	2	2	156
Lightning	789	52,317	4,941,205
Line Failure	1,656	145,981	14,831,033
Object Contact With Line	38	7,925	1,172,469
Other Electric Utility	1	84	8,820
Other Utility-Non Elec	3	20	1,467
Overload	75	11,461	871,163
Planned Outage	362	16,890	954,030
Previous Lightning	82	915	96,676
Switching Error	1	246	1,722
Trees - Sec/Service	501	2,085	561,623
Trees Off Row-Limb	749	61,831	5,178,801
Trees Off Row-Tree	1,514	168,898	25,472,925
Trees On Row	76	1,124	346,759
Ug Dig-Up	67	3,833	852,498
Unknown	627	72,519	4,957,557
Vandalism	24	115	12,623
Vehicle	629	110,011	12,520,224
Wind	6	231	98,567
Totals:	14,635	1,016,260	103,777,107

Notes:

**The Ohio Edison Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	15	409	28,853
Bird	8	84	3,725
Call Error	1	2	1,082
Customer Equipment	1	99	26,532
Equipment Failure	138	12,646	5,651,558
Forced Outage	15	873	100,330
Lightning	90	3,194	687,273
Line Failure	289	27,645	5,656,488
Object Contact With Line	2	5	2,267
Planned Outage	1	70	1,322
Previous Lightning	1	30	1,530
Trees - Sec/Service	211	669	573,270
Trees Off Row-Limb	147	20,065	4,148,347
Trees Off Row-Tree	947	93,554	30,851,925
Trees On Row	9	405	160,066
Ug Dig-Up	2	2	4,889
Unknown	34	1,035	301,436
Vandalism	1	1	1,475
Vehicle	9	1,378	365,377
Wind	20	6,637	1,060,544
Totals:	1,941	168,803	49,628,289

Notes:

**The Ohio Edison Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Bird	2	2,677	137,651
Customer Equipment	12	20,241	648,701
Equipment Failure	125	113,022	7,026,552
Forced Outage	11	16,187	1,272,060
Human Error - Company	24	37,135	824,896
Human Error -Non-Company	4	6,462	116,316
Line Failure	28	36,035	3,928,961
Trees Off Row-Limb	6	6,570	565,020
Trees Off Row-Tree	5	5,836	189,748
Unknown	23	26,399	402,731
Vehicle	17	17,115	1,803,531
Total	257	287,679	16,916,167

Notes:

**The Ohio Edison Company
Rule 10 Report for 2021**

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

Total Number = 352

Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of	)	
Electric Distribution System Reliability	)	Case No: 22-0993-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 2021.

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

Edward L. Shuttleworth

Printed Name

President, Ohio Operations

Title

3/30/2022

Date

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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	126.86	252.47

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	1.07	1.56

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>
734,672	782,926	1,149,255	99,319,671	290,149,415

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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

Date	Description	CI	CMI	CAIDI	SAIFI
12/11/2021	Wind	76,187	24,854,661	326.23	0.1037
08/12/2021	Thunderstorms	15,061	8,582,422	569.84	0.0205
08/11/2021	Thunderstorms	74,059	95,976,311	1,295.94	0.1008
06/28/2021	Thunderstorms	10,747	4,805,533	447.15	0.0146
05/28/2021	Wind	63,938	28,743,653	449.56	0.0870
04/21/2021	Thunderstorms	42,466	9,241,505	217.62	0.0578
03/26/2021	Wind	56,271	13,695,194	243.38	0.0766
Totals		338,729	185,899,279		

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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)
03/15/2021	4035	10:55	138	Human Error During Construction	37
08/11/2021	4008	17:38	138	Weather induced fall-in (outside ROW)	2
08/13/2021	4074	15:24	138	Emergency Forced	13

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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
03/15/2021	296	9,221	8	401250001	37	1,751
03/15/2021	296	9,221	8	401250008	37	1,123
03/15/2021	296	9,221	8	401250007	37	1
03/15/2021	296	9,221	8	401250006	37	157
03/15/2021	296	9,221	8	401250004	37	1,847
03/15/2021	296	9,221	8	401250003	37	80
03/15/2021	296	9,221	8	401250005	37	3,125
03/15/2021	296	9,221	8	401250002	37	1,137
04/08/2021	164	61	1	401310006	164	61
08/10/2021	943	17	1	401080005	943	17
08/11/2021	3,505	18,289	14	401230006	307	2,737
08/11/2021	3,505	18,289	14	401270002	254	1,589
08/11/2021	3,505	18,289	14	401230004	223	3,244
08/11/2021	3,505	18,289	14	401270001	241	929
08/11/2021	3,505	18,289	14	401400007	306	1,490
08/11/2021	3,505	18,289	14	401240007	202	2,053
08/11/2021	3,505	18,289	14	401230005	220	1,549
08/11/2021	3,505	18,289	14	401400005	305	962
08/11/2021	3,505	18,289	14	401270003	254	970
08/11/2021	3,505	18,289	14	401230007	219	1,657
08/11/2021	3,505	18,289	14	401400005	303	245
08/11/2021	3,505	18,289	14	401240006	201	676
08/11/2021	3,505	18,289	14	401400006	301	59
08/11/2021	3,505	18,289	14	401240008	169	129
08/13/2021	1,067	1	1	402750005	1,067	1
08/13/2021	13	1	1	402650005	13	1

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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

Outage Start Date	CAIDI During Outage	SAIFI During Outage
03/15/2021	31.15	0.0004
04/08/2021	0.37	0.0002
08/10/2021	0.02	0.0013
08/11/2021	5.22	0.0048
08/13/2021	0.00	0.0015
08/13/2021	0.08	0.0000

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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	39,152	3,413,355
Bird	113	2,026	180,180
Call Error	1	2	1,250
Contamination	4	4	1,534
Customer Equipment	19	1,235	59,126
Equipment Failure	2,191	212,306	25,480,780
Fire	37	12,696	1,070,798
Forced Outage	428	51,554	3,632,526
Human Error - Company	16	17,299	571,447
Human Error -Non-Company	31	3,398	278,972
Ice	1	5	920
Lightning	32	513	125,046
Line Failure	2,659	194,665	27,640,329
Object Contact With Line	40	6,087	407,354
Other Electric Utility	5	522	98,111
Other Utility-Non Elec	2	399	62,191
Overload	18	8,100	787,137
Planned Outage	205	6,962	895,961
Previous Lightning	4	6	1,711
Switching Error	10	7,140	120,764
Trees - Sec/Service	496	2,104	916,798
Trees Off Row-Limb	302	51,866	7,147,235
Trees Off Row-Tree	542	66,888	12,879,836
Trees On Row	236	21,599	3,334,152
Ug Dig-Up	51	1,897	308,821
Unknown	490	28,884	4,612,202
Vandalism	16	276	205,385
Vehicle	222	44,814	4,810,150
Wind	42	527	275,600
Totals:	8,825	782,926	99,319,671

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	16	659	110,125
Bird	2	2	3,800
Call Error	8	84	43,133
Contamination	1	6	6,708
Customer Equipment	5	209	243,445
Equipment Failure	435	89,905	35,508,485
Fire	7	1,960	2,408,287
Forced Outage	22	1,818	814,502
Lightning	7	283	127,301
Line Failure	457	54,584	33,010,105
Object Contact With Line	13	1,925	2,066,019
Overload	10	7,766	4,247,917
Planned Outage	4	65	6,511
Trees - Sec/Service	156	1,281	2,120,914
Trees Off Row-Limb	168	21,047	16,188,920
Trees Off Row-Tree	393	83,465	51,059,656
Trees On Row	122	14,115	8,216,503
Ug Dig-Up	1	18	2,661
Unknown	217	44,031	16,336,009
Vandalism	1	35	39,865
Vehicle	2	13	24,071
Wind	222	15,458	13,314,342
Totals:	2,269	338,729	185,899,279

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Equipment Failure	2	3,261	739,443
Forced Outage	3	62	10,017
Line Failure	2	2	2,270
Object Contact With Line	8	9,221	341,177
Unknown	14	15,049	3,831,748
Wind	1	5	5,810
Total	30	27,600	4,930,465

Notes:

**The Cleveland Electric Illuminating Company
Rule 10 Report for 2021**

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

Total Number = 746

Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of	)	
Electric Distribution System Reliability	)	Case No: 22-0993-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 2021.

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

Edward L. Shuttleworth
Printed Name

President, Ohio Operations
Title

3/30/2022
Date

**The Toledo Edison Company
Rule 10 Report for 2021**

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>
112.33	94.75	149.23

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	0.68	1.12

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>
306,626	210,035	343,223	19,901,402	51,220,212

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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

Date	Description	CI	CMI	CAIDI	SAIFI
12/11/2021	Wind	23,584	6,210,003	263.31	0.0769
09/14/2021	Thunderstorms	10,639	4,094,458	384.85	0.0347
08/11/2021	Thunderstorms	31,813	11,832,817	371.95	0.1038
07/07/2021	Thunderstorms	17,941	3,225,386	179.78	0.0585
06/21/2021	Thunderstorms	12,138	2,333,520	192.25	0.0396
06/20/2021	Thunderstorms	7,140	1,760,084	246.51	0.0233
Totals		103,255	29,456,268		

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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)
02/21/2021	3129	21:41	69	Insulator Failure	1,092
05/07/2021	3006	06:11	138	Insulator Failure	776
07/23/2021	3160	10:05	138	Vehicle Pole/Tower Accident	3,537
08/11/2021	3163	14:24	69	Weather induced fall-in (outside ROW)	1,818
09/14/2021	3146	21:03	69	Wind	68
10/21/2021	3124-1	23:42	69	Vehicle - Guy Wire	969

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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
02/21/2021	152	3,214	4	500021271	63	1,984
02/21/2021	152	3,214	4	500021298	13	235
02/21/2021	152	3,214	4	500021297	13	866
02/21/2021	152	3,214	4	500021272	63	129
05/07/2021	1,012	7,511	8	500491248	164	1,154
05/07/2021	1,012	7,511	8	500491246	158	1,458
05/07/2021	1,012	7,511	8	500041332	63	495
05/07/2021	1,012	7,511	8	500292012	168	25
05/07/2021	1,012	7,511	8	500291291	168	668
05/07/2021	1,012	7,511	8	500291299	168	578
05/07/2021	1,012	7,511	8	500041330	63	1,713
05/07/2021	1,012	7,511	8	500041331	60	1,420
06/21/2021	664	2	1	500551312	664	2
07/23/2021	130	2,810	4	500231142	59	931
07/23/2021	130	2,810	4	500231141	59	207
07/23/2021	130	2,810	4	500391137	6	1,073
07/23/2021	130	2,810	4	500391136	6	599
08/11/2021	17	474	1	500181295	17	474
09/14/2021	344	8,491	5	500131256	69	1,021
09/14/2021	344	8,491	5	500131259	69	2,032
09/14/2021	344	8,491	5	500131257	69	1,746
09/14/2021	344	8,491	5	500131258	69	2,118
09/14/2021	344	8,491	5	500131254	68	1,574
10/21/2021	44	4,724	4	500281316	11	1,067
10/21/2021	44	4,724	4	500081307	11	1,010
10/21/2021	44	4,724	4	500081306	11	968
10/21/2021	44	4,724	4	500281317	11	1,679

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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

Outage Start Date	CAIDI During Outage	SAIFI During Outage
02/21/2021	21.14	0.0005
05/07/2021	7.42	0.0033
06/21/2021	0.00	0.0022
07/23/2021	21.62	0.0004
08/11/2021	27.88	0.0001
09/14/2021	24.68	0.0011
10/21/2021	107.36	0.0001

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

6a. 4901:1-10-10(C)(3)(a): Data Excluding Major Events and Transmission Outages

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	684	8,171	648,067
Bird	258	2,358	117,245
Customer Equipment	3	9	1,672
Equipment Failure	707	52,540	5,260,142
Fire	7	161	36,377
Forced Outage	228	34,824	1,071,509
Human Error - Company	30	61	3,053
Human Error -Non-Company	29	1,817	170,021
Ice	6	7	703
Lightning	83	2,768	312,511
Line Failure	913	30,118	3,968,407
Object Contact With Line	29	1,796	255,264
Other Electric Utility	1	1	103
Other Utility-Non Elec	2	48	7,620
Planned Outage	21	760	107,539
Previous Lightning	5	29	3,148
Switching Error	2	1,047	13,040
Trees - Sec/Service	383	797	217,792
Trees Off Row-Limb	170	11,956	1,465,105
Trees Off Row-Tree	140	11,227	1,512,547
Trees On Row	40	819	196,433
Ug Dig-Up	58	3,518	349,123
Unknown	506	19,589	1,627,270
Vandalism	11	11	925
Vehicle	162	25,575	2,549,993
Wind	3	28	5,793
Totals:	4,481	210,035	19,901,402

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Animal	6	40	4,001
Bird	10	104	8,689
Customer Equipment	4	332	55,403
Equipment Failure	102	11,940	3,765,405
Forced Outage	15	3,984	127,170
Lightning	39	739	223,315
Line Failure	49	4,677	1,223,117
Object Contact With Line	5	733	174,677
Other Utility-Non Elec	1	1	472
Trees - Sec/Service	143	2,456	541,047
Trees Off Row-Limb	123	24,429	8,027,924
Trees Off Row-Tree	198	27,398	10,381,098
Trees On Row	25	729	592,250
Unknown	86	17,752	2,063,584
Vehicle	4	2,525	326,517
Wind	38	5,416	1,941,599
Totals:	848	103,255	29,456,268

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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

Outage Cause	Events	Customers Interrupted	Customer Minutes Interrupted
Equipment Failure	6	5,303	718,348
Trees Off Row-Tree	1	2	1,328
Unknown	18	21,818	1,065,692
Vehicle	4	2,810	77,174
Total	29	29,933	1,862,542

Notes:

**The Toledo Edison Company
Rule 10 Report for 2021**

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

Total Number = 198

Notes:

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in

Case No(s). 22-0993-EL-ESS

Summary: 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 Ohio Edison Company and The Cleveland Electric Illuminating Company and The Toledo Edison Company and Danford, Emily V