

Emily V. Danford
Attorney

330-384-5849
edanford@firstenergycorp.com

March 31, 2023

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. 23-993-EL-ESS***

Dear Ms. Troupe:

Enclosed for filing please find the Annual Reports of Ohio Edison Company, The Cleveland Electric Illuminating Company and The Toledo Edison Company in the above referenced proceeding, filed pursuant to Ohio Administrative Code Section 4901:1-10-10; and The Cleveland Electric Illuminating Company's Customer Average Interruption Duration Index ("CAIDI") Action Plan.

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

Respectfully,

/s/ Emily V. Danford

Emily V. Danford, Esq.

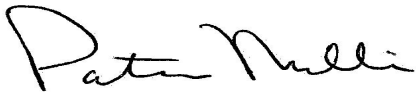
Enc.

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 23-993-EL-ESS
Pursuant to Rule 4901:1-10-10(C))

Pursuant to Rule 4901:1-10-10(C) of the Ohio Administrative Code,
Ohio Edison Company
hereby submits the attached annual report for the year 2022 .

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

Patricia Mullin

Printed Name

Acting President, Ohio Operations

Title

March 24, 2023

Date

Ohio Edison Company
Rule 10 Report for 2022

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 | 99.52 | 189.01 |

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 | 1.03 | 1.52 |

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> |
|----------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 1,052,033 | 1,088,779 | 1,598,177 | 108,355,586 | 302,054,123 |

Notes:

*CI = Customer Interruptions
 CMI = Customer Minutes Interrupted

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Date | Description | CI | CMI | CAIDI | SAIFI |
|----------------|--------------------|----------------|--------------------|--------------|--------------|
| 2/25/2022 | Winter Storm | 35,239 | 6,476,007 | 183.77 | 0.03 |
| 5/21/2022 | Thunderstorm | 32,226 | 5,827,151 | 180.82 | 0.03 |
| 6/1/2022 | Thunderstorm | 43,148 | 11,469,547 | 265.82 | 0.04 |
| 6/13/2022 | Thunderstorm/Wind | 44,265 | 87,887,451 | 1,985.48 | 0.04 |
| 6/14/2022 | Thunderstorm | 18,494 | 29,924,145 | 1,618.05 | 0.02 |
| 6/15/2022 | Thunderstorm | 26,256 | 6,149,265 | 234.20 | 0.02 |
| 6/17/2022 | Thunderstorm | 14,196 | 7,928,557 | 558.51 | 0.01 |
| 12/23/2022 | Winter Storm | 65,058 | 17,667,850 | 271.57 | 0.06 |
| Totals: | | 278,882 | 173,329,973 | | |

Notes:

Ohio Edison Company
Rule 10 Report for 2022

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) |
|--------------------------|---|--------------------------|-------------------|--|--------------------------------|
| 1/22/2022 | Breaker Failure - Cannot relate back to Tx line interrupt | 3:59 AM | 138 | Failed AC Substation Equipment | 219 |
| 2/11/2022 | 2217 | 4:10 PM | 69 | Emergency Forced | 24,339 |
| 2/17/2022 | 2102 | 8:56 PM | 138 | Ice | 221 |
| 2/25/2022 | 2312-3 | 6:09 AM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 782 |
| 3/4/2022 | Bus Outage - Cannot relate back to Tx line interrupt | 11:10 AM | 138 | Human Error | 16 |
| 3/6/2022 | 3320 | 1:16 PM | 69 | Insulator Failure | 209 |
| 3/9/2022 | 3140 | 10:27 PM | 69 | Vehicle Pole/Tower Accident | 814 |
| 3/16/2022 | Bus Outage - Cannot relate back to Tx line interrupt | 10:18 AM | 138 | Failed AC Substation Equipment | 12 |
| 3/18/2022 | 2076 | 9:00 AM | 138 | Other (Explain) | 9 |
| 3/23/2022 | 3110 | 1:54 AM | 69 | Abnormal System Configuration | 15 |
| 3/23/2022 | 3109 | 1:54 AM | 69 | CT/PT Combo | 351 |
| 3/31/2022 | 3140 | 6:06 AM | 69 | Insulator Failure | 474 |
| 4/1/2022 | Bus Outage - Cannot relate back to Tx line interrupt | 3:32 PM | 69 | Emergency Forced | 29 |
| 4/2/2022 | Bus Outage - Cannot relate back to Tx line interrupt | 11:20 AM | 23 | Emergency Forced | 29 |
| 4/3/2022 | 2213 | 7:24 AM | 69 | Cross Arm Failure | 39 |
| 4/3/2022 | 2220 | 11:36 AM | 69 | Emergency Forced | 145 |
| 4/13/2022 | 2331 | 9:44 AM | 69 | Human Error | 17 |
| 4/13/2022 | 2311 | 9:44 AM | 69 | Human Error | 17 |
| 4/13/2022 | 2313-2 | 9:44 AM | 69 | Human Error | 17 |
| 5/1/2022 | 2401 | 6:23 AM | 69 | Cross Arm Failure | 1,755 |
| 5/8/2022 | 2209 | 10:24 AM | 69 | Birds In Line | 11 |
| 5/18/2022 | 2208-1 | 1:08 AM | 69 | Vehicle Pole/Tower Accident | 2,648 |
| 5/18/2022 | 2002 | 1:15 PM | 23 | Insulator Failure | 75 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage Start Date | Transmission Circuit Impacted | Outage Start Time | Circuit kV | Outage Cause | Outage Length (minutes) |
|--------------------------|--------------------------------------|--------------------------|-------------------|--|--------------------------------|
| 5/20/2022 | 2402 | 9:47 AM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 450 |
| 5/20/2022 | 2410 | 9:49 AM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 421 |
| 5/21/2022 | 2225 | 7:13 PM | 69 | Weather induced fall-in (outside ROW) | 4,062 |
| 5/21/2022 | 2231-1 | 7:54 PM | 69 | Weather induced fall-in (outside ROW) | 2,871 |
| 5/26/2022 | 2333 | 8:51 PM | 69 | Cross Arm Brace Failure | 72 |
| 5/27/2022 | 2335 | 5:40 AM | 69 | Cross Arm Failure | 697 |
| 6/1/2022 | 2343-1 | 4:49 PM | 69 | Cross Arm Failure | 737 |
| 6/1/2022 | 2222 | 6:49 PM | 69 | Weather induced fall-in (outside ROW) | 2,410 |
| 6/10/2022 | 2337-1 | 6:16 PM | 138 | Pre-Contingency System Operating Limit (not voltage) | 85 |
| 6/13/2022 | 2407 | 11:23 PM | 69 | Weather induced fall-in (outside ROW) | 342 |
| 6/13/2022 | 2426-1 | 11:28 PM | 69 | Weather induced fall-in (outside ROW) | 393 |
| 6/13/2022 | 2430 | 11:37 PM | 69 | Down Ground | 2,324 |
| 6/13/2022 | 2425 | 11:38 PM | 69 | Weather induced fall-in (outside ROW) | 124 |
| 6/15/2022 | 2121-2 | 4:49 PM | 138 | Abnormal System Configuration | 6 |
| 6/15/2022 | 2121-2 | 6:52 AM | 138 | Abnormal System Configuration | 2 |
| 6/16/2022 | 2331 | 1:43 PM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 1,049 |
| 6/16/2022 | 2415-2 | 4:09 PM | 69 | Failed AC Circuit Equipment | 10 |
| 7/25/2022 | 2315 | 2:51 AM | 69 | Weather induced fall-in (outside ROW) | 232 |
| 8/8/2022 | 2306 | 8:00 PM | 69 | Correlation - unknown magnitude/design criteria | 734 |

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage Start Date | Transmission Circuit Impacted | Outage Start Time | Circuit kV | Outage Cause | Outage Length (minutes) |
|--------------------------|--|--------------------------|-------------------|--|--------------------------------|
| 8/10/2022 | 2430 | 4:29 PM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 466 |
| 8/20/2022 | This was scheduled work - no interrupt | 3:59 AM | 69 | | 119 |
| 9/21/2022 | 2418 | 1:33 PM | 69 | Guy Wire | 280 |
| 9/22/2022 | 2312-1 | 1:30 PM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 1,423 |
| 9/25/2022 | 2202 | 1:29 PM | 69 | Fall-ins (outside ROW) (not due to Nat Dis or Human Error) | 549 |
| 10/08/2022 | 2406-1 | 12:11 PM | 69 | Unknown After Exhaustive Patrol or Investigation | 27 |
| 10/18/2022 | 2305 | 10:39 PM | 69 | Cross Arm Brace Failure | 2,380 |
| 10/19/2022 | 2226-1 | 4:58 AM | 69 | Unknown After Exhaustive Patrol or Investigation | 104 |
| 11/18/2022 | 2219 | 3:40 AM | 69 | Insulator Failure | 370 |
| 11/21/2022 | 2076 | 8:41 AM | 138 | Pole Fire | 910 |
| 11/26/2022 | 2339-1 | 2:57 PM | 69 | Gun Fire | 10 |
| 12/23/2022 | 3219 | 10:49 AM | 69 | Under Investigation | 411 |
| 12/23/2022 | 2205 | 5:00 PM | 69 | Emergency Forced | 23 |

Notes:

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 1/22/2022 | 787 | 8,092 | 4 | 201440128 | 27 | 5,913 |
| 1/22/2022 | 787 | 8,092 | 4 | 201440119 | 4,283 | 937,977 |
| 1/22/2022 | 787 | 8,092 | 4 | 201440128 | 2,816 | 397,056 |
| 1/22/2022 | 787 | 8,092 | 4 | 201440128 | 966 | 200,928 |
| 2/11/2022 | 98 | 2,088 | 2 | 208440014 | 1,137 | 55,713 |
| 2/11/2022 | 98 | 2,088 | 2 | 208440007 | 951 | 46,599 |
| 2/17/2022 | 7 | 727 | 1 | 206170006 | 727 | 5,089 |
| 2/25/2022 | 415 | 6,411 | 5 | 208230019 | 1,068 | 88,644 |
| 2/25/2022 | 415 | 6,411 | 5 | 200190060 | 1,374 | 114,042 |
| 2/25/2022 | 415 | 6,411 | 5 | 200190010 | 1,156 | 95,948 |
| 2/25/2022 | 415 | 6,411 | 5 | 208230009 | 1,117 | 92,711 |
| 2/25/2022 | 415 | 6,411 | 5 | 200190002 | 1,696 | 140,768 |
| 3/4/2022 | 16 | 1 | 1 | 208486022 | 1 | 16 |
| 3/6/2022 | 472 | 7,410 | 4 | 204160025 | 2,244 | 264,792 |
| 3/6/2022 | 472 | 7,410 | 4 | 204160024 | 2,617 | 308,806 |
| 3/6/2022 | 472 | 7,410 | 4 | 204160026 | 1,756 | 207,208 |
| 3/6/2022 | 472 | 7,410 | 4 | 204160027 | 793 | 93,574 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205110017 | 1,805 | 16,245 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205110061 | 797 | 7,173 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205540013 | 1,406 | 94,202 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 3/9/2022 | 1,749 | 6,347 | 7 | 205540013 | 162 | 124,416 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205540016 | 995 | 66,665 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205110051 | 1,180 | 10,620 |
| 3/9/2022 | 1,749 | 6,347 | 7 | 205540013 | 2 | 1,640 |
| 3/16/2022 | 12 | 899 | 1 | 203645659 | 899 | 10,788 |
| 3/18/2022 | 12 | 3,513 | 2 | 210970014 | 1,861 | 11,166 |
| 3/18/2022 | 12 | 3,513 | 2 | 210970013 | 1,652 | 9,912 |
| 3/23/2022 | 96 | 9,110 | 8 | 205180056 | 1,771 | 21,252 |
| 3/23/2022 | 96 | 9,110 | 8 | 205120028 | 300 | 3,600 |
| 3/23/2022 | 96 | 9,110 | 8 | 205180082 | 1,593 | 19,116 |
| 3/23/2022 | 96 | 9,110 | 8 | 205180047 | 1,201 | 14,412 |
| 3/23/2022 | 96 | 9,110 | 8 | 205120036 | 1,121 | 13,452 |
| 3/23/2022 | 96 | 9,110 | 8 | 205120020 | 225 | 2,700 |
| 3/23/2022 | 96 | 9,110 | 8 | 205180076 | 1,361 | 16,332 |
| 3/23/2022 | 140 | 1,251 | 2 | 205220018 | 845 | 59,150 |
| 3/23/2022 | 96 | 9,110 | 8 | 205180090 | 1,538 | 18,456 |
| 3/23/2022 | 140 | 1,251 | 2 | 205220027 | 406 | 28,420 |
| 3/31/2022 | 911 | 13,552 | 11 | 204280016 | 1,036 | 249,676 |
| 3/31/2022 | 911 | 13,552 | 11 | 204280016 | 1,860 | 228,780 |
| 3/31/2022 | 911 | 13,552 | 11 | 204280016 | 379 | 24,256 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 3/31/2022 | 911 | 13,552 | 11 | 205540013 | 1,569 | 10,983 |
| 3/31/2022 | 911 | 13,552 | 11 | 205190028 | 1,865 | 96,980 |
| 3/31/2022 | 911 | 13,552 | 11 | 205540016 | 995 | 6,965 |
| 3/31/2022 | 911 | 13,552 | 11 | 205190019 | 1,849 | 96,148 |
| 3/31/2022 | 911 | 13,552 | 11 | 204280016 | 217 | 74,648 |
| 3/31/2022 | 911 | 13,552 | 11 | 205110051 | 1,178 | 8,246 |
| 3/31/2022 | 911 | 13,552 | 11 | 205110061 | 802 | 5,614 |
| 3/31/2022 | 911 | 13,552 | 11 | 205110017 | 1,802 | 12,614 |
| 4/1/2022 | 116 | 6,220 | 4 | 200400009 | 2,472 | 71,688 |
| 4/1/2022 | 116 | 6,220 | 4 | 203250006 | 729 | 21,141 |
| 4/1/2022 | 116 | 6,220 | 4 | 203250007 | 1,029 | 29,841 |
| 4/1/2022 | 116 | 6,220 | 4 | 200400014 | 1,990 | 57,710 |
| 4/2/2022 | 87 | 1,553 | 3 | 200100093 | 496 | 14,384 |
| 4/2/2022 | 87 | 1,553 | 3 | 200100086 | 637 | 18,473 |
| 4/2/2022 | 87 | 1,553 | 3 | 200100097 | 420 | 12,180 |
| 4/3/2022 | 78 | 937 | 2 | 201250002 | 318 | 12,402 |
| 4/3/2022 | 78 | 937 | 2 | 201250010 | 619 | 24,141 |
| 4/3/2022 | 488 | 2,739 | 5 | 201080051 | 263 | 6,049 |
| 4/3/2022 | 488 | 2,739 | 5 | 201080051 | 1,127 | 174,685 |
| 4/3/2022 | 488 | 2,739 | 5 | 201080023 | 318 | 46,746 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 4/3/2022 | 488 | 2,739 | 5 | 201080048 | 476 | 7,616 |
| 4/3/2022 | 488 | 2,739 | 5 | 201080024 | 555 | 81,585 |
| 4/13/2022 | 16 | 1,192 | 1 | 200480075 | 1,192 | 19,072 |
| 4/13/2022 | 16 | 1,933 | 1 | 200480091 | 1,933 | 30,928 |
| 4/13/2022 | 16 | 3,363 | 1 | 200480108 | 3,363 | 53,808 |
| 5/1/2022 | 712 | 4,341 | 8 | 206570004 | 1 | 80 |
| 5/1/2022 | 712 | 4,341 | 8 | 206560003 | 29 | 2,842 |
| 5/1/2022 | 712 | 4,341 | 8 | 206560002 | 375 | 36,750 |
| 5/1/2022 | 712 | 4,341 | 8 | 206560044 | 1,280 | 125,440 |
| 5/1/2022 | 712 | 4,341 | 8 | 206570003 | 568 | 45,440 |
| 5/1/2022 | 712 | 4,341 | 8 | 206570002 | 176 | 14,080 |
| 5/1/2022 | 712 | 4,341 | 8 | 206560040 | 818 | 80,164 |
| 5/1/2022 | 712 | 4,341 | 8 | 206570006 | 1,094 | 87,520 |
| 5/8/2022 | 22 | 1,438 | 2 | 201840013 | 829 | 9,119 |
| 5/8/2022 | 22 | 1,438 | 2 | 201840014 | 609 | 6,699 |
| 5/18/2022 | 112 | 6,086 | 4 | 201750005 | 899 | 25,172 |
| 5/18/2022 | 112 | 6,086 | 4 | 201750072 | 2,237 | 62,636 |
| 5/18/2022 | 112 | 6,086 | 4 | 201750007 | 959 | 26,852 |
| 5/18/2022 | 112 | 6,086 | 4 | 201750050 | 1,991 | 55,748 |
| 5/18/2022 | 75 | 231 | 1 | 201010086 | 231 | 17,325 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 5/20/2022 | 162 | 4,192 | 3 | 202340020 | 1,492 | 80,568 |
| 5/20/2022 | 162 | 4,192 | 3 | 202340028 | 1,748 | 94,392 |
| 5/20/2022 | 162 | 4,192 | 3 | 202340036 | 952 | 51,408 |
| 5/20/2022 | 648 | 6,491 | 6 | 202070049 | 724 | 78,192 |
| 5/20/2022 | 648 | 6,491 | 6 | 202200150 | 1,164 | 125,712 |
| 5/20/2022 | 648 | 6,491 | 6 | 202200159 | 1,516 | 163,728 |
| 5/20/2022 | 648 | 6,491 | 6 | 202200126 | 1,338 | 144,504 |
| 5/20/2022 | 648 | 6,491 | 6 | 202070063 | 850 | 91,800 |
| 5/20/2022 | 648 | 6,491 | 6 | 202200117 | 899 | 97,092 |
| 5/21/2022 | 160 | 2,130 | 2 | 201680015 | 1,138 | 91,040 |
| 5/21/2022 | 160 | 2,130 | 2 | 201680021 | 992 | 79,360 |
| 5/21/2022 | 104 | 5,851 | 5 | 201560012 | 1,106 | 13,272 |
| 5/21/2022 | 104 | 5,851 | 5 | 201560014 | 1,174 | 14,088 |
| 5/21/2022 | 104 | 5,851 | 5 | 201560013 | 445 | 5,340 |
| 5/21/2022 | 104 | 5,851 | 5 | 201660007 | 1,943 | 66,062 |
| 5/21/2022 | 104 | 5,851 | 5 | 201660004 | 1,183 | 40,222 |
| 5/26/2022 | 355 | 6,622 | 5 | 200290018 | 231 | 16,401 |
| 5/26/2022 | 355 | 6,622 | 5 | 200290053 | 1,534 | 108,914 |
| 5/26/2022 | 355 | 6,622 | 5 | 200290013 | 380 | 26,980 |
| 5/26/2022 | 355 | 6,622 | 5 | 200290068 | 3,466 | 246,086 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 5/26/2022 | 355 | 6,622 | 5 | 200290048 | 1,011 | 71,781 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660401 | 91 | 24,479 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660403 | 1,854 | 31,518 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660401 | 411 | 90,420 |
| 5/27/2022 | 951 | 6,057 | 9 | 204280016 | 813 | 73,170 |
| 5/27/2022 | 951 | 6,057 | 9 | 204280016 | 504 | 90,720 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660403 | 560 | 53,760 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660401 | 152 | 8,664 |
| 5/27/2022 | 951 | 6,057 | 9 | 204660401 | 661 | 5,288 |
| 5/27/2022 | 951 | 6,057 | 9 | 204280016 | 1,011 | 14,154 |
| 6/1/2022 | 1,055 | 847 | 3 | 210860013 | 685 | 108,230 |
| 6/1/2022 | 1,055 | 847 | 3 | 210860014 | 152 | 24,016 |
| 6/1/2022 | 1,055 | 847 | 3 | 205400016 | 10 | 7,390 |
| 6/1/2022 | 156 | 1,629 | 2 | 203260008 | 841 | 65,598 |
| 6/1/2022 | 156 | 1,629 | 2 | 203260007 | 788 | 61,464 |
| 6/10/2022 | 277 | 6,254 | 5 | 206500042 | 618 | 6,798 |
| 6/10/2022 | 277 | 6,254 | 5 | 206500042 | 517 | 43,945 |
| 6/10/2022 | 277 | 6,254 | 5 | 206500018 | 2,860 | 240,240 |
| 6/10/2022 | 277 | 6,254 | 5 | 206500027 | 1,299 | 109,116 |
| 6/10/2022 | 277 | 6,254 | 5 | 206500042 | 960 | 12,480 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 6/13/2022 | 684 | 2,216 | 2 | 206200030 | 1,435 | 490,770 |
| 6/13/2022 | 684 | 2,216 | 2 | 206200007 | 781 | 267,102 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206520010 | 1,299 | 510,507 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206580022 | 861 | 151,536 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206610017 | 1,110 | 308,580 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206580024 | 1,211 | 213,136 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206610018 | 1,023 | 283,371 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206580023 | 801 | 139,374 |
| 6/13/2022 | 1,647 | 7,373 | 7 | 206580025 | 1,068 | 184,764 |
| 6/13/2022 | 3,577 | 1,205 | 2 | 207120017 | 1,120 | 1,403,360 |
| 6/13/2022 | 3,577 | 1,205 | 2 | 207120017 | 85 | 197,540 |
| 6/13/2022 | 247 | 1,870 | 2 | 207130017 | 1,213 | 149,199 |
| 6/13/2022 | 247 | 1,870 | 2 | 207050003 | 657 | 81,468 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060072 | 2,024 | 12,144 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060032 | 1,506 | 182,226 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060073 | 322 | 1,932 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060014 | 1,990 | 206,960 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060052 | 1,673 | 175,665 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060023 | 2,578 | 265,534 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060052 | 1,673 | 46,844 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 6/15/2022 | 676 | 17,840 | 10 | 210060014 | 1,990 | 53,730 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060032 | 1,506 | 225,900 |
| 6/15/2022 | 676 | 17,840 | 10 | 210060023 | 2,578 | 67,028 |
| 6/16/2022 | 44 | 5,439 | 4 | 200230013 | 1,038 | 11,418 |
| 6/16/2022 | 44 | 5,439 | 4 | 200520014 | 1,352 | 14,872 |
| 6/16/2022 | 44 | 5,439 | 4 | 200230007 | 618 | 6,798 |
| 6/16/2022 | 44 | 5,439 | 4 | 200520026 | 2,431 | 26,741 |
| 6/16/2022 | 30 | 3,975 | 3 | 206740022 | 1,409 | 14,090 |
| 6/16/2022 | 30 | 3,975 | 3 | 206740033 | 1,349 | 13,490 |
| 6/16/2022 | 30 | 3,975 | 3 | 206740009 | 1,217 | 12,170 |
| 7/25/2022 | 385 | 6,371 | 5 | 200420064 | 590 | 74,930 |
| 7/25/2022 | 385 | 6,371 | 5 | 200420064 | 780 | 159,120 |
| 7/25/2022 | 385 | 6,371 | 5 | 200420014 | 1,826 | 32,868 |
| 7/25/2022 | 385 | 6,371 | 5 | 200420055 | 1,780 | 32,040 |
| 7/25/2022 | 385 | 6,371 | 5 | 200420017 | 1,395 | 25,110 |
| 8/8/2022 | 14 | 3,526 | 2 | 204540044 | 953 | 6,671 |
| 8/8/2022 | 14 | 3,526 | 2 | 204540035 | 2,573 | 18,011 |
| 8/10/2022 | 510 | 1,772 | 3 | 207180014 | 543 | 59,187 |
| 8/10/2022 | 510 | 1,772 | 3 | 207120017 | 1,204 | 13,244 |
| 8/10/2022 | 510 | 1,772 | 3 | 207180014 | 25 | 9,750 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 8/20/2022 | 237 | 2,663 | 2 | 201730002 | 1,192 | 141,848 |
| 8/20/2022 | 237 | 2,663 | 2 | 201730015 | 1,471 | 173,578 |
| 9/21/2022 | 774 | 3,910 | 4 | 202280012 | 941 | 263,480 |
| 9/21/2022 | 774 | 3,910 | 4 | 202210026 | 1,569 | 167,883 |
| 9/21/2022 | 774 | 3,910 | 4 | 202210017 | 854 | 91,378 |
| 9/21/2022 | 774 | 3,910 | 4 | 202280016 | 546 | 152,880 |
| 9/22/2022 | 38 | 2,273 | 2 | 210300028 | 407 | 7,733 |
| 9/22/2022 | 38 | 2,273 | 2 | 210300020 | 1,866 | 35,454 |
| 9/25/2022 | 156 | 6,312 | 4 | 203250006 | 724 | 8,688 |
| 9/25/2022 | 156 | 6,312 | 4 | 200400009 | 2,484 | 163,944 |
| 9/25/2022 | 156 | 6,312 | 4 | 200400014 | 1,997 | 131,802 |
| 9/25/2022 | 156 | 6,312 | 4 | 203250007 | 1,107 | 13,284 |
| 10/8/2022 | 75 | 3,639 | 3 | 206200007 | 781 | 19,525 |
| 10/8/2022 | 75 | 3,639 | 3 | 206200030 | 1,429 | 35,725 |
| 10/8/2022 | 75 | 3,639 | 3 | 206200030 | 1,429 | 35,725 |
| 10/18/2022 | 57 | 5,163 | 3 | 204040014 | 1,719 | 32,661 |
| 10/18/2022 | 57 | 5,163 | 3 | 204020013 | 2,250 | 42,750 |
| 10/18/2022 | 57 | 5,163 | 3 | 204040013 | 1,194 | 22,686 |
| 10/19/2022 | 104 | 1,913 | 1 | 201260001 | 1,913 | 198,952 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520029 | 381 | 169,164 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520029 | 579 | 83,955 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520029 | 357 | 70,329 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520093 | 983 | 363,710 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520021 | 1,595 | 590,150 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520065 | 774 | 286,380 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520029 | 381 | 169,164 |
| 11/18/2022 | 2,468 | 5,896 | 8 | 201520056 | 846 | 108,288 |
| 11/21/2022 | 180 | 3,516 | 2 | 210970014 | 1,857 | 167,130 |
| 11/21/2022 | 180 | 3,516 | 2 | 210970013 | 1,659 | 149,310 |
| 11/26/2022 | 40 | 3,770 | 4 | 203560040 | 103 | 1,030 |
| 11/26/2022 | 40 | 3,770 | 4 | 203550009 | 1,366 | 13,660 |
| 11/26/2022 | 40 | 3,770 | 4 | 203550008 | 767 | 7,670 |
| 11/26/2022 | 40 | 3,770 | 4 | 203560016 | 1,534 | 15,340 |
| 12/23/2022 | 1,349 | 7,912 | 5 | 204230044 | 1,553 | 610,329 |
| 12/23/2022 | 1,349 | 7,912 | 5 | 204120023 | 2,485 | 213,710 |
| 12/23/2022 | 1,349 | 7,912 | 5 | 204120009 | 1,943 | 167,098 |
| 12/23/2022 | 1,349 | 7,912 | 5 | 204230047 | 1,674 | 656,208 |
| 12/23/2022 | 1,349 | 7,912 | 5 | 204230056 | 257 | 100,744 |
| 12/23/2022 | 48 | 2,455 | 2 | 201380013 | 1,576 | 37,824 |
| 12/23/2022 | 48 | 2,455 | 2 | 201380005 | 879 | 21,096 |

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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 |
|----------------------------------|------------------------------|-------------------------------|---------------------------------------|--|-------------------------------|--------------------------------|
|----------------------------------|------------------------------|-------------------------------|---------------------------------------|--|-------------------------------|--------------------------------|

Notes:

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage start date | CAIDI during outage | SAIFI during outage |
|--------------------------|----------------------------|----------------------------|
| 1/22/2022 | 10 | 0.0007 |
| 2/11/2022 | 21 | 0.0001 |
| 2/17/2022 | 104 | 0.0000 |
| 2/25/2022 | 15 | 0.0004 |
| 3/4/2022 | 0 | 0.0000 |
| 3/6/2022 | 16 | 0.0004 |
| 3/9/2022 | 4 | 0.0017 |
| 3/16/2022 | 75 | 0.0000 |
| 3/18/2022 | 293 | 0.0000 |
| 3/23/2022 | 95 | 0.0001 |
| 3/23/2022 | 9 | 0.0001 |
| 3/31/2022 | 15 | 0.0009 |
| 4/1/2022 | 54 | 0.0001 |
| 4/2/2022 | 18 | 0.0001 |
| 4/3/2022 | 6 | 0.0005 |
| 4/3/2022 | 12 | 0.0001 |
| 4/13/2022 | 75 | 0.0000 |
| 4/13/2022 | 121 | 0.0000 |
| 4/13/2022 | 210 | 0.0000 |
| 5/1/2022 | 6 | 0.0007 |
| 5/8/2022 | 65 | 0.0000 |
| 5/18/2022 | 3 | 0.0001 |
| 5/18/2022 | 54 | 0.0001 |
| 5/20/2022 | 10 | 0.0006 |
| 5/20/2022 | 26 | 0.0002 |
| 5/21/2022 | 13 | 0.0002 |
| 5/21/2022 | 56 | 0.0001 |
| 5/26/2022 | 19 | 0.0003 |
| 5/27/2022 | 6 | 0.0009 |

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage start date | CAIDI during outage | SAIFI during outage |
|--------------------------|----------------------------|----------------------------|
| 6/1/2022 | 1 | 0.0010 |
| 6/1/2022 | 10 | 0.0001 |
| 6/10/2022 | 23 | 0.0003 |
| 6/13/2022 | 0 | 0.0034 |
| 6/13/2022 | 3 | 0.0007 |
| 6/13/2022 | 4 | 0.0016 |
| 6/13/2022 | 8 | 0.0002 |
| 6/15/2022 | 26 | 0.0006 |
| 6/16/2022 | 124 | 0.0000 |
| 6/16/2022 | 133 | 0.0000 |
| 7/25/2022 | 17 | 0.0004 |
| 8/08/2022 | 252 | 0.0000 |
| 8/10/2022 | 3 | 0.0005 |
| 8/20/2022 | 11 | 0.0002 |
| 9/21/2022 | 5 | 0.0007 |
| 9/22/2022 | 60 | 0.0000 |
| 9/25/2022 | 40 | 0.0001 |
| 10/08/2022 | 49 | 0.0001 |
| 10/18/2022 | 91 | 0.0001 |
| 10/19/2022 | 18 | 0.0001 |
| 11/18/2022 | 2 | 0.0023 |
| 11/21/2022 | 20 | 0.0002 |
| 11/26/2022 | 94 | 0.0000 |
| 12/23/2022 | 6 | 0.0013 |
| 12/23/2022 | 51 | 0.0000 |

Notes:

Ohio Edison Company
Rule 10 Report for 2022

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------------|---------------|------------------------------|--------------------------------------|
| Animal | 3,641 | 121,032 | 9,454,773 |
| Bird | 1,333 | 21,769 | 1,848,781 |
| Call Error | 3 | 2,053 | 207,970 |
| Customer Equipment | 25 | 90 | 16,586 |
| Equipment Failure | 2,023 | 237,824 | 21,216,310 |
| Fire | 15 | 595 | 51,721 |
| Forced Outage | 503 | 78,880 | 3,904,939 |
| Human Error - Company | 58 | 25,713 | 612,896 |
| Human Error - Non-company | 66 | 8,136 | 677,098 |
| Ice | 6 | 20 | 6,399 |
| Lightning | 598 | 26,361 | 2,668,326 |
| Line Failure | 2,558 | 157,270 | 19,147,071 |
| Object Contact with Line | 39 | 3,296 | 332,297 |
| Other Electric Utility | 3 | 396 | 55,667 |
| Other Utility - Non-elec | 2 | 36 | 2,736 |
| Overload | 60 | 7,944 | 528,829 |
| Planned Outage | 412 | 20,580 | 2,123,754 |
| Previous Lightning | 51 | 262 | 25,659 |
| Trees - SEC/Service | 593 | 2,062 | 552,929 |
| Trees off ROW - Limb | 906 | 64,462 | 7,437,059 |
| Trees off ROW - Tree | 1,829 | 133,550 | 20,097,080 |
| Trees on ROW | 44 | 1,095 | 218,492 |
| UG Dig-up | 92 | 1,333 | 168,571 |

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------|---------------|------------------------------|--------------------------------------|
| Unknown | 837 | 60,499 | 4,398,552 |
| Vandalism | 22 | 524 | 37,313 |
| Vehicle | 829 | 112,984 | 12,558,206 |
| Wind | 3 | 13 | 5,572 |
| Totals: | 16,551 | 1,088,779 | 108,355,586 |

Notes:

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|--------------------------|---------------|------------------------------|--------------------------------------|
| Animal | 101 | 2,001 | 162,539 |
| Bird | 31 | 3,888 | 346,881 |
| Customer Equipment | 2 | 2 | 1,676 |
| Equipment Failure | 319 | 63,305 | 20,448,966 |
| Forced Outage | 32 | 9,666 | 1,425,626 |
| Human Error - Company | 1 | 81 | 4,455 |
| Ice | 24 | 1,418 | 331,775 |
| Lightning | 123 | 6,440 | 2,777,046 |
| Line Failure | 323 | 35,479 | 19,015,015 |
| Object Contact with Line | 1 | 1 | 168 |
| Other Utility Company | 2 | 345 | 710,106 |
| Overload | 24 | 18,873 | 2,359,885 |
| Planned Outage | 3 | 21 | 3,143 |
| Previous Lightning | 1 | 1 | 65 |
| Trees - Sec/Service | 230 | 1,033 | 1,204,572 |
| Trees off ROW-Limb | 136 | 12,787 | 4,553,288 |
| Trees off ROW-Tree | 1,210 | 105,482 | 105,319,861 |
| Trees on ROW | 36 | 1,799 | 2,138,110 |
| Unknown | 68 | 7,900 | 1,526,473 |
| Vandalism | 1 | 1 | 281 |
| Vehicle | 19 | 3,202 | 140,071 |
| Wind | 115 | 5,157 | 10,859,971 |
| Totals: | 2,802 | 278,882 | 173,329,973 |

Notes:

3/15/2023

**Ohio Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------|----------------|------------------------------|--------------------------------------|
| Customer Equipment | 10 | 10,361 | 196,890 |
| Equipment Failure | 64 | 70,691 | 6,507,871 |
| Forced Outage | 11 | 7,186 | 694,469 |
| Lightning | 5 | 5,851 | 138,984 |
| Line Failure | 29 | 35,075 | 4,811,372 |
| Overload | 10 | 17,840 | 1,237,963 |
| Planned Outage | 1 | 899 | 10,788 |
| Trees Off Row-Limb | 7 | 8,644 | 367,255 |
| Trees Off Row-Tree | 32 | 35,754 | 4,106,571 |
| Unknown | 19 | 24,483 | 1,294,525 |
| Vehicle | 11 | 12,433 | 491,369 |
| Wind | 1 | 1,299 | 510,507 |
| | Totals: | 200 | 230,516 |
| | | | 20,368,564 |

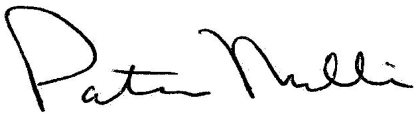
Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 23-993-EL-ESS
Pursuant to Rule 4901:1-10-10(C))

Pursuant to Rule 4901:1-10-10(C) of the Ohio Administrative Code,
Cleveland Electric Illuminating Company
hereby submits the attached annual report for the year 2022 .

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

Patricia Mullin

Printed Name

Acting President, Ohio Operations

Title

March 24, 2023

Date

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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 | 144.62 | 153.67 |

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 | 1.06 | 1.21 |

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> |
|----------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 735,859 | 783,440 | 888,476 | 113,298,176 | 136,532,765 |

Notes:

*CI = Customer Interruptions
CMI = Customer Minutes Interrupted

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Date | Description | CI | CMI | CAIDI | SAIFI |
|----------------|--------------------|---------------|-------------------|--------------|--------------|
| 12/3/2022 | Winter Storm | 23,243 | 9,111,281 | 392.00 | 0.03 |
| 12/23/2022 | Winter Storm | 36,891 | 8,170,508 | 221.48 | 0.05 |
| Totals: | | 60,134 | 17,281,789 | | |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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) |
|--------------------------|--------------------------------------|--------------------------|-------------------|--------------------------------|--------------------------------|
| 1/5/2022 | 4067 | 3:07 PM | 138 | Human Error | 297 |
| 2/18/2022 | 4071 | 12:05 AM | 138 | Failed AC Substation Equipment | 138 |
| 7/24/2022 | 4046 | 11:41 PM | 138 | Steel Member (Tower) Failure | 55,920 |
| 8/21/2022 | 4052 | 6:31 PM | 138 | Lightning | 15 |
| 11/17/2022 | 4071 | 4:45 AM | 36 | Ice | 526 |
| 11/17/2022 | 4067 | 6:24 AM | 138 | Ice | 425 |
| 12/27/2022 | 4052 | 11:36 AM | 138 | Human Error During Maintenance | 105 |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 1/5/2022 | 644 | 5,507 | 4 | 402420001 | 2,142 | 636,174 |
| 1/5/2022 | 644 | 5,507 | 4 | 402420003 | 872 | 101,152 |
| 1/5/2022 | 644 | 5,507 | 4 | 402420002 | 783 | 91,611 |
| 1/5/2022 | 644 | 5,507 | 4 | 402420004 | 1,710 | 194,940 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170009 | 4 | 552 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 402420010 | 8 | 1,104 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170006 | 22 | 3,036 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170002 | 438 | 60,444 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170003 | 673 | 92,874 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170008 | 336 | 46,368 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170007 | 984 | 135,792 |
| 2/18/2022 | 1,104 | 2,664 | 8 | 401170004 | 199 | 27,462 |
| 07/24/2022 | 621 | 3,214 | 4 | 400670003 | 2,069 | 300,005 |
| 07/24/2022 | 621 | 3,214 | 4 | 400670001 | 7 | 1,162 |
| 07/24/2022 | 621 | 3,214 | 4 | 400670001 | 876 | 114,756 |
| 07/24/2022 | 621 | 3,214 | 4 | 400670002 | 262 | 46,898 |
| 07/25/2022 | 788 | 40 | 2 | 400920009 | 19 | 6,935 |
| 07/25/2022 | 788 | 40 | 2 | 400920009 | 21 | 8,883 |
| 8/21/2022 | 15 | 2,950 | 1 | 401420001 | 2,950 | 44,250 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170007 | 986 | 281,996 |

3/15/2023

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170003 | 671 | 191,906 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170008 | 335 | 95,810 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170003 | 671 | 191,906 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170004 | 201 | 57,486 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170009 | 4 | 1,144 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170002 | 430 | 122,980 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 402420010 | 8 | 2,288 |
| 11/17/2022 | 2,574 | 3,328 | 9 | 401170006 | 22 | 6,292 |
| 11/17/2022 | 1,707 | 5,156 | 4 | 402420002 | 807 | 339,747 |
| 11/17/2022 | 1,707 | 5,156 | 4 | 402420003 | 868 | 368,032 |
| 11/17/2022 | 1,707 | 5,156 | 4 | 402420001 | 1,874 | 781,458 |
| 11/17/2022 | 1,707 | 5,156 | 4 | 402420004 | 1,607 | 715,115 |
| 12/25/2022 | 348 | 1 | 1 | 400790008 | 1 | 348 |
| 12/27/2022 | 394 | 22,042 | 10 | 401420001 | 5,882 | 88,230 |
| 12/27/2022 | 394 | 22,042 | 10 | 401420001 | 2,941 | 444,091 |
| 12/27/2022 | 394 | 22,042 | 10 | 401420003 | 2,019 | 30,285 |
| 12/27/2022 | 394 | 22,042 | 10 | 401360001 | 1,389 | 43,059 |
| 12/27/2022 | 394 | 22,042 | 10 | 401570004 | 912 | 13,680 |
| 12/27/2022 | 394 | 22,042 | 10 | 401310003 | 1,669 | 25,035 |
| 12/27/2022 | 394 | 22,042 | 10 | 401360003 | 3,277 | 101,587 |

3/15/2023

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 12/27/2022 | 394 | 22,042 | 10 | 401360004 | 1,212 | 37,572 |
| 12/27/2022 | 394 | 22,042 | 10 | 401570003 | 1,787 | 26,805 |
| 12/27/2022 | 394 | 22,042 | 10 | 401420002 | 954 | 71,550 |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Outage start date | CAIDI during outage | SAIFI during outage |
|--------------------------|----------------------------|----------------------------|
| 1/5/2022 | 9 | 0.0009 |
| 2/18/2022 | 2 | 0.0015 |
| 07/24/2022 | 5 | 0.0008 |
| 7/25/2022 | 0 | 0.0011 |
| 8/21/2022 | 197 | 0.0000 |
| 11/17/2022 | 1 | 0.0035 |
| 11/17/2022 | 3 | 0.0023 |
| 12/27/2022 | 56 | 0.0005 |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------------|---------------|------------------------------|--------------------------------------|
| Animal | 727 | 25,089 | 1,691,273 |
| Bird | 148 | 2,122 | 431,316 |
| Call Error | 3 | 33 | 2,581 |
| Contamination | 13 | 158 | 27,361 |
| Customer Equipment | 15 | 67 | 8,834 |
| Equipment Failure | 2,494 | 219,229 | 25,878,846 |
| Fire | 95 | 26,522 | 6,056,272 |
| Forced Outage | 422 | 39,875 | 3,374,120 |
| Human Error - Company | 38 | 14,725 | 1,508,040 |
| Human Error - Non-company | 47 | 18,429 | 513,415 |
| Ice | 5 | 26 | 7,082 |
| Lightning | 59 | 5,176 | 944,990 |
| Line Failure | 3,773 | 196,991 | 33,874,845 |
| Object Contact with Line | 35 | 6,036 | 396,501 |
| Other Electric Utility | 6 | 67 | 15,906 |
| Other Utility - Non-elec | 5 | 6 | 3,593 |
| Overload | 11 | 312 | 43,209 |
| Planned Outage | 254 | 6,424 | 872,309 |
| Previous Lightning | 1 | 2 | 550 |
| Switching Error | 1 | 9 | 1,314 |
| Trees - SEC/Service | 549 | 2,206 | 961,969 |
| Trees off ROW - Limb | 492 | 49,350 | 8,535,133 |
| Trees off ROW - Tree | 631 | 66,212 | 12,656,447 |

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------|---------------|------------------------------|--------------------------------------|
| Trees on ROW | 198 | 14,098 | 4,348,480 |
| UG Dig-up | 47 | 3,097 | 361,404 |
| Unknown | 429 | 53,288 | 5,235,418 |
| Vandalism | 16 | 364 | 219,766 |
| Vehicle | 257 | 31,856 | 4,936,749 |
| Wind | 32 | 1,671 | 390,453 |
| Totals: | 10,803 | 783,440 | 113,298,176 |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|----------------------|---------------|------------------------------|--------------------------------------|
| Animal | 3 | 18 | 20,856 |
| Call Error | 2 | 165 | 55,275 |
| Equipment Failure | 92 | 17,481 | 4,795,278 |
| Fire | 2 | 2,892 | 629,439 |
| Forced Outage | 5 | 51 | 25,323 |
| Ice | 2 | 10 | 4,629 |
| Line Failure | 162 | 12,797 | 5,120,835 |
| Overload | 1 | 5 | 4,750 |
| Trees - Sec/Service | 12 | 92 | 117,632 |
| Trees off ROW - Limb | 24 | 3,756 | 1,192,781 |
| Trees off ROW - Tree | 52 | 8,649 | 2,611,037 |
| Trees On ROW | 11 | 771 | 417,382 |
| Unkown | 34 | 8,685 | 1,247,927 |
| Wind | 48 | 4,762 | 1,038,645 |
| Totals: | 450 | 60,134 | 17,281,789 |

Notes:

**Cleveland Electric Illuminating Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|-----------------------|----------------|-----------------------|-------------------------------|
| Equipment Failure | 13 | 5,879 | 830,801 |
| Human Error - Company | 10 | 22,042 | 881,894 |
| Ice | 5 | 5,164 | 2,206,640 |
| Line Failure | 13 | 6,725 | 1,353,041 |
| Trees off ROW - Tree | 1 | 2,142 | 636,174 |
| Unknown | 1 | 2,950 | 44,250 |
| | Totals: | 43 | 44,902 |
| | | | 5,952,800 |

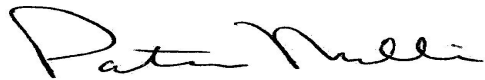
Notes:

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

In the matter of the Annual Report of)
Electric Distribution System Reliability) Case No: 23-993-EL-ESS
Pursuant to Rule 4901:1-10-10(C))

Pursuant to Rule 4901:1-10-10(C) of the Ohio Administrative Code,
Toledo Edison Company
hereby submits the attached annual report for the year 2022 .

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

Patricia Mullin

Printed Name

Acting President, Ohio Operations

Title

March 24, 2023

Date

**Toledo Edison Company
Rule 10 Report for 2022**

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 | 97.65 | 137.92 |

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 | 0.83 | 1.20 |

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> |
|----------------------------|--------------------------------|--------------------------------|---------------------------------|---------------------------------|
| 307,454 | 254,994 | 369,150 | 24,899,292 | 50,913,089 |

Notes:

*CI = Customer Interruptions
CMI = Customer Minutes Interrupted

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Date | Description | CI | CMI | CAIDI | SAIFI |
|----------------|--------------------|---------------|-------------------|--------------|--------------|
| 6/13/2022 | Thunderstorms | 9,330 | 4,716,012 | 505.47 | 0.03 |
| 6/14/2022 | Thunderstorms | 4,969 | 1,823,750 | 367.03 | 0.02 |
| 6/15/2022 | Thunderstorms | 10,095 | 1,617,759 | 160.25 | 0.03 |
| 8/3/2022 | Thunderstorms | 5,181 | 1,707,352 | 329.54 | 0.02 |
| 8/29/2022 | Thunderstorms | 13,780 | 5,757,980 | 417.85 | 0.04 |
| 11/5/2022 | Wind | 6,367 | 1,633,899 | 256.62 | 0.02 |
| 11/27/2022 | Thunderstorms | 10,608 | 1,347,666 | 127.04 | 0.03 |
| Totals: | | 60,330 | 18,604,418 | | |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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) |
|--------------------------|--|--------------------------|-------------------|---------------------------------------|--------------------------------|
| 3/12/2022 | 3012-2 | 4:53 AM | 138 | Static Wire | 378 |
| 6/6/2022 | 3121 | 10:32 PM | 69 | Other (Explain) | 8,396 |
| 6/13/2022 | Tx caused outage, but no Tx interrupt was associated to it - static line | 10:59 PM | 138 | Wind/Bird | 604 |
| 6/14/2022 | 3152 | 2:09 AM | 69 | Weather induced fall-in (outside ROW) | 977 |
| 7/13/2022 | 3130 | 9:31 AM | 69 | Wind | 13 |
| 7/21/2022 | 3121 | 12:43 PM | 69 | Switch Flashover, Switch Failure | 5 |
| 7/21/2022 | 3163 | 12:43 PM | 69 | Switch Flashover, Switch Failure | 8 |
| 8/11/2022 | 3033 | 11:53 AM | 138 | Human Error - Other (Explain) | 11 |
| 9/9/2022 | 3102 | 10:32 PM | 69 | Vehicle Pole/Tower Accident | 1,353 |
| 9/24/2022 | 3014 | 12:43 AM | 138 | Lightning Arrestor Failure | 328 |
| 10/24/2022 | 3125 | 12:57 AM | 69 | Insulator Failure | 113 |
| 11/05/2022 | 3015-2 | 2:40 PM | 138 | Pole Failure | 2,590 |
| 11/21/2022 | 3026 | 3:57 PM | 138 | Static Wire | 399 |
| 12/23/2022 | 3026 | 5:52 PM | 138 | Failed AC Circuit Equipment | 252 |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 3/12/2022 | 886 | 5,174 | 4 | 500211357 | 1,039 | 181,825 |
| 3/12/2022 | 886 | 5,174 | 4 | 500211359 | 1,679 | 238,418 |
| 3/12/2022 | 886 | 5,174 | 4 | 500211358 | 2,435 | 357,945 |
| 3/12/2022 | 886 | 5,174 | 4 | 500211358 | 21 | 8,862 |
| 6/6/2022 | 7,185 | 931 | 6 | 500171309 | 86 | 19,866 |
| 6/6/2022 | 7,185 | 931 | 6 | 500171309 | 42 | 11,550 |
| 6/6/2022 | 7,185 | 931 | 6 | 500171309 | 41 | 124,845 |
| 6/6/2022 | 7,185 | 931 | 6 | 500171309 | 1 | 3,045 |
| 6/6/2022 | 7,185 | 931 | 6 | 500161284 | 437 | 137,655 |
| 6/6/2022 | 7,185 | 931 | 6 | 500171309 | 324 | 88,776 |
| 6/7/2022 | 16 | 455 | 1 | 500161284 | 455 | 7,280 |
| 6/13/2022 | 1,173 | 2,754 | 2 | 500651118 | 1,310 | 791,240 |
| 6/13/2022 | 1,173 | 2,754 | 2 | 500651119 | 1,444 | 821,636 |
| 6/14/2022 | 15 | 570 | 1 | 500351195 | 570 | 8,550 |
| 7/13/2022 | 25 | 1,100 | 2 | 500021297 | 869 | 11,297 |
| 7/13/2022 | 25 | 1,100 | 2 | 500021298 | 231 | 2,772 |
| 7/21/2022 | 8 | 891 | 1 | 500161284 | 891 | 7,128 |
| 7/21/2022 | 8 | 478 | 1 | 500181295 | 478 | 3,824 |
| 8/11/2022 | 30 | 2,676 | 3 | 500151324 | 841 | 8,410 |
| 8/11/2022 | 30 | 2,676 | 3 | 500151319 | 246 | 2,460 |

3/15/2023

**Toledo Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 8/11/2022 | 30 | 2,676 | 3 | 500151318 | 1,589 | 15,890 |
| 9/9/2022 | 158 | 4,434 | 2 | 500011365 | 2,486 | 196,394 |
| 9/9/2022 | 158 | 4,434 | 2 | 500011367 | 1,948 | 153,892 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500121202 | 1,322 | 531,444 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500121201 | 1,519 | 495,194 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500291299 | 1,249 | 452,138 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500491249 | 1,322 | 267,044 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500292012 | 426 | 153,786 |
| 9/24/2022 | 1,978 | 7,732 | 6 | 500121200 | 1,894 | 615,550 |
| 10/24/2022 | 224 | 14,971 | 7 | 500131256 | 1,032 | 33,024 |
| 10/24/2022 | 224 | 14,971 | 7 | 500341225 | 2,005 | 64,160 |
| 10/24/2022 | 224 | 14,971 | 7 | 500131259 | 2,062 | 65,984 |
| 10/24/2022 | 224 | 14,971 | 7 | 500131257 | 1,733 | 55,456 |
| 10/24/2022 | 224 | 14,971 | 7 | 500131258 | 3,139 | 100,448 |
| 10/24/2022 | 224 | 14,971 | 7 | 500131254 | 1,558 | 49,856 |
| 10/24/2022 | 224 | 14,971 | 7 | 500341226 | 3,442 | 110,144 |
| 11/05/2022 | 36 | 5,930 | 4 | 500551311 | 1,057 | 9,513 |
| 11/05/2022 | 36 | 5,930 | 4 | 500551310 | 1,982 | 17,838 |
| 11/05/2022 | 36 | 5,930 | 4 | 500551312 | 1,834 | 16,506 |
| 11/05/2022 | 36 | 5,930 | 4 | 500551311 | 1,057 | 9,513 |

3/15/2023

**Toledo Edison Company
Rule 10 Report for 2022**

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 |
|--------------------------|----------------------|-----------------------|-------------------------------|----------------------------------|-----------------------|------------------------|
| 11/21/2022 | 527 | 2,841 | 3 | 500731390 | 910 | 80,080 |
| 11/21/2022 | 527 | 2,841 | 3 | 500731391 | 1,459 | 112,343 |
| 11/21/2022 | 527 | 2,841 | 3 | 500731391 | 472 | 170,864 |
| 12/23/2022 | 963 | 2,845 | 4 | 500731390 | 404 | 108,272 |
| 12/23/2022 | 963 | 2,845 | 4 | 500731391 | 1,734 | 400,554 |
| 12/23/2022 | 963 | 2,845 | 4 | 500731390 | 506 | 127,512 |
| 12/23/2022 | 963 | 2,845 | 4 | 500731391 | 201 | 42,612 |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Outage start date | CAIDI during outage | SAIFI during outage |
|--------------------------|----------------------------|----------------------------|
| 3/12/2022 | 6 | 0.0029 |
| 6/6/2022 | 0 | 0.0234 |
| 6/7/2022 | 28 | 0.0001 |
| 6/13/2022 | 2 | 0.0038 |
| 6/14/2022 | 38 | 0.0000 |
| 7/13/2022 | 44 | 0.0001 |
| 7/21/2022 | 111 | 0.0000 |
| 7/21/2022 | 60 | 0.0000 |
| 8/11/2022 | 89 | 0.0001 |
| 9/9/2022 | 28 | 0.0005 |
| 9/24/2022 | 4 | 0.0064 |
| 10/24/2022 | 67 | 0.0007 |
| 11/05/2022 | 165 | 0.0001 |
| 11/21/2022 | 5 | 0.0017 |
| 12/23/2022 | 3 | 0.0031 |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------------|---------------|------------------------------|--------------------------------------|
| Animal | 934 | 15,823 | 1,054,535 |
| Bird | 217 | 4,735 | 337,261 |
| Contamination | 3 | 67 | 13,742 |
| Customer Equipment | 2 | 22 | 4,358 |
| Equipment Failure | 826 | 59,469 | 6,720,127 |
| Fire | 7 | 182 | 44,889 |
| Forced Outage | 226 | 48,566 | 1,692,783 |
| Human Error - Company | 18 | 5,858 | 262,097 |
| Human Error - Non-company | 26 | 504 | 75,597 |
| Ice | 5 | 303 | 53,514 |
| Lightning | 176 | 10,750 | 1,466,793 |
| Line Failure | 994 | 30,506 | 4,079,467 |
| Object Contact with Line | 24 | 3,451 | 519,434 |
| Planned Outage | 17 | 460 | 44,386 |
| Previous Lightning | 11 | 82 | 11,139 |
| Trees - SEC/Service | 333 | 651 | 158,980 |
| Trees off ROW - Limb | 164 | 8,653 | 1,089,092 |
| Trees off ROW - Tree | 226 | 12,980 | 1,884,000 |
| Trees on ROW | 65 | 1,608 | 261,052 |
| UG Dig-up | 63 | 2,607 | 145,045 |
| Unknown | 548 | 12,305 | 1,391,231 |
| Vandalism | 10 | 10 | 1,115 |
| Vehicle | 234 | 29,541 | 3,064,802 |

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------|---------------|------------------------------|--------------------------------------|
| Wind | 33 | 5,861 | 523,853 |
| <hr/> | | | |
| Totals: | 5,162 | 254,994 | 24,899,292 |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------------|---------------|------------------------------|--------------------------------------|
| Animal | 18 | 157 | 32,986 |
| Bird | 6 | 206 | 6,970 |
| Customer Equipment | 1 | 22 | 4,180 |
| Equipment Failure | 89 | 16,695 | 3,812,051 |
| Forced Outage | 14 | 1,833 | 255,166 |
| Human Error - Non-Company | 1 | 1 | 2,625 |
| Lightning | 30 | 1,422 | 440,321 |
| Line Failure | 55 | 6,999 | 1,519,221 |
| Object Contact with Line | 7 | 107 | 49,280 |
| Other Electric Utility | 1 | 1 | 654 |
| Previous Lightning | 4 | 74 | 16,930 |
| Trees - Sec/Service | 87 | 312 | 391,178 |
| Trees off ROW - Limb | 87 | 9,347 | 1,924,406 |
| Trees off ROW - Tree | 146 | 13,554 | 7,306,548 |
| Trees on ROW | 39 | 2,833 | 712,368 |
| Unknown | 67 | 4,072 | 1,169,895 |
| Vehicle | 8 | 1,358 | 223,315 |
| Wind | 32 | 1,337 | 736,324 |
| Totals: | 692 | 60,330 | 18,604,418 |

Notes:

**Toledo Edison Company
Rule 10 Report for 2022**

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

| Outage Cause | Events | Customers Interrupted | Customers Minutes Interrupted |
|---------------------|----------------|------------------------------|--------------------------------------|
| Customer Equipment | 1 | 1,322 | 531,444 |
| Equipment Failure | 5 | 6,410 | 1,983,712 |
| Line Failure | 8 | 9,325 | 1,941,577 |
| Unknown | 24 | 30,905 | 2,093,359 |
| Vehicle | 9 | 5,820 | 743,303 |
| | Totals: | 47 | 53,782 |
| | | | 7,293,395 |

Notes:

**The Cleveland Electric Illuminating Company
Customer Average Interruption Duration Index (“CAIDI”) Action Plan**

The Cleveland Electric Illuminating Company (“CEI” or “Company”) has a history of strong reliability performance. From the time the Company’s most recent distribution reliability standards were established in 2010 through 2021, the Company performed better than the standards for system average interruption frequency index (“SAIFI”) and customer average interruption duration index (“CAIDI”). Notwithstanding the Company’s history of reliable service, CEI did not meet its CAIDI index standard for 2022. After major event exclusionsⁱ, the Company’s CAIDI performance for 2022 was 144.62 minutes compared to the standard of 135.00 minutes. As a result of this performance, in accordance with Ohio Administrative Code 4901:1-10-10 (D), CEI is filing this action plan that includes the factors which contributed to the actual performance level and how CEI will ensure its performance meets or exceeds its performance standards going forward.

In reviewing 2022 performance, the primary factors impacting CEI’s CAIDI performance were outages caused by trees (primarily off right-of-way trees) and linesⁱⁱ. To address these top outage causes and improve its CAIDI performance, CEI proposes the actions shown in the following table.

| Cause Type | Action | Estimated Completion Date |
|------------|--|---------------------------|
| Trees | <ul style="list-style-type: none"> • CEI is evaluating enhancing its vegetation management program, to deliver positive reliability results. • Perform cycle-based tree trimming, which includes achieving four years of clearance, removal of selected incompatible trees within the clearing zone corridor, removal of certain defective limbs that are overhanging primary conductors, and removal of selected off-corridor priority trees that are dead, dying, diseased, and leaning or significantly encroaching the corridor. • In 2022, CEI accelerated 500 miles of scheduled maintenance miles from 2023. This acceleration addressed vegetation management needs one year ahead of schedule to mitigate additional risks to reliability. • CEI is piloting vendor-supported advanced remote sensing analytics tools along 200 miles of distribution lines. These tools are expected to assist operations staff when performing condition-based planning and provide insights on the optimization of vegetation management resources. • Tree-Outage Prediction (“TOP”) model was developed internally to predict the risk of a tree-caused outage, using a combination of internal and external data, including outage history, vegetation management inspection records, weather history and soil, slope, and other earth information. This information is used to calculate the likelihood of an outage between two poles, using customer counts to inform the magnitude of the outage, to derive a risk based on the combination of the two. This insight will be used during the planning of the work to maximize the investment into the system. This model is being piloted in CEI in 2023 for field verifications with full roll out expected in 2024. | 12/31/2023 |

| | | |
|--------------|---|------------|
| Line Failure | <ul style="list-style-type: none"> • Complete thermal scans for thirty to forty worst performing circuits with top cause of line failure. This will identify abnormal wire and equipment temperatures. Deficiencies will be prioritized by overall system impact and scheduled for remediation. • CEI is planning projects determined by reviewing line failure, equipment failure and tree-caused outages from the 2022 calendar year. Four to six circuits will be targeted and prioritized for rehabilitationⁱⁱⁱ based on 2022 worst performing circuit (“WPC”) status and sorted by highest customer minutes interrupted (“CMI”) and CAIDI impact. | 12/31/2023 |
|--------------|---|------------|

ⁱ Ohio Administrative Code 4901:1-10-01 (T) "Major event" encompasses any calendar day when an electric utility's system average interruption duration index (SAIDI) exceeds the major event day threshold using the methodology outlined in section 3.5 of standard 1366-2012 adopted by the institute of electrical and electronics engineers (IEEE) in "IEEE Guide for Electric Power Distribution Reliability Indices." The threshold will be calculated by determining the SAIDI associated with adding 2.5 standard deviations to the average of the natural logarithms of the electric utility's daily SAIDI performance during the most recent five-year period. For purposes of this definition, the SAIDI shall be determined in accordance with paragraph (C)(3)(e)(iii) of rule 4901:1-10-11 of the Administrative Code.

ⁱⁱ Defined as an outage caused by the failure of an overhead conductor or underground cable.

ⁱⁱⁱ Typical work performed during rehabilitation projects includes replacing crossarms and braces, insulators, cutouts, poles, and conductor on targeted sections of circuits.

**This foregoing document was electronically filed with the Public Utilities
Commission of Ohio Docketing Information System on**

3/31/2023 11:45:00 AM

in

Case No(s). 23-0993-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 The Cleveland Electric Illuminating Company and Ohio Edison Company and The Toledo Edison Company and Danford, Emily V.