

**BEFORE
THE PUBLIC UTILITIES COMMISSION OF OHIO**

| | | |
|---------------------------------------|---|-------------------------|
| In the Matter of the Annual Report of | : | |
| | : | |
| Pursuant to Rule 10 of the Electric | : | Case No. 13-0723-EL-ESS |
| Service and Safety Standards, Ohio | : | |
| Administrative Code 4901:1-10-10 | : | |

**ANNUAL REPORT
OF THE DUKE ENERGY OHIO COMPANY**

Pursuant to Rule 10 of the Electric Service and Safety Standards, Ohio, Administrative Code 4901:1-10-10, ("Duke") submits the following Annual Report. The Report is attached.

Report Date & Time: March 21, 2013 12:31 pm

**Duke Energy
Duke Energy Ohio
Rule #10
2012
Distribution System Reliability Report**

**Duke Energy
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1. 4901:1-10-(C)(1)

**CAIDI - Customer Average Interruption Duration
Index (In Minutes)**

| a. | b. | c. |
|----------------------------------|---------------------------|----------------------------|
| CAIDI Performance Standard | CAIDI After Exclusions | CAIDI Before Exclusions |
| 115.02 | 103.26 | 266.71 |

2. 4901:1-10-(C)(1)

SAIFI - System Average Interruption Frequency Index

| a. | b. | c. |
|----------------------------------|---------------------------|----------------------------|
| SAIFI Performance Standard | SAIFI After Exclusions | SAIFI Before Exclusions |
| 1.31 | 1.08 | 1.82 |

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

| a. | b. | c. | d. | e. |
|-------------------------------|---|--|---|---|
| Number Of Customers Served | Number Of Customer Interruptions After Exclusions | Number Of Customer Interruptions Before Exclusions | Number Of Customer Minutes Interrupted After Exclusions | Number Of Customer Minutes Interrupted Before Exclusions |
| 689,044 | 745,757 | 1,250,680 | 77,008,025 | 333,573,164 |

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

| a. | b. | c. | d. | e. | f. |
|------------------|-------------------------|----------------------------------|---|-------------------------------|------------------|
| Major Event Date | Major Event Description | Customers Interrupted During MEO | Customer Minutes Interrupted During MEO | CAIDI During MEO (in minutes) | SAIFI During MEO |
| 06/29/2012 | Thunderstorm | 234,528 | 196,938,256 | 839.72 | 0.34 |
| 07/18/2012 | Thunderstorm | 59,919 | 22,164,083 | 369.90 | 0.09 |
| 07/24/2012 | Thunderstorm | 48,766 | 13,328,981 | 273.33 | 0.07 |
| 07/27/2012 | Thunderstorm | 37,838 | 7,561,036 | 199.83 | 0.05 |
| 12/20/2012 | Wind | 36,366 | 7,894,991 | 217.10 | 0.05 |

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5.a. 4901:1-10-10(C)(2) Transmission Circuit Interruption Supporting Data

| 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|----------------------------|---|---|---|
| Date Transmission Outage Began | Reference ID Of Transmission Circuit Impacted | Time Outage Occurred | Size (in kilovolts) Of Transmission Circuit Or Equipment Involved | Cause Of Outage Including Specific Type Of Equipment And/Or Facility Causing Interruption | Total Length Of Interruption (in minutes) |
| 01/20/2012 | 038 - 3864 | 1:38 am | 69 | Equipment/Hardware Failure | 67 |
| 01/20/2012 | 008 - 863 | 11:57 pm | 69 | Equipment/Hardware Failure | 145 |
| 03/02/2012 | 081 - 1862 | 4:48 pm | 69 | Weather, Wind Related | 1,458 |
| 03/16/2012 | 090 - 9064 | 9:46 pm | 69 | Auto Damage | 45 |
| 04/23/2012 | 056 - 5667 | 1:19 pm | 69 | Equipment/Hardware Failure | 267 |
| 06/07/2012 | 028 - 2865 | 3:07 am | 69 | Substation Trouble | 101 |
| 06/12/2012 | 029 - 2764 | 10:33 am | 69 | Auto Damage | 7 |
| 07/03/2012 | 046 - 4666 | 3:09 pm | 69 | Equipment/Hardware Failure | 353 |
| 07/03/2012 | 046 - 3861 | 3:12 pm | 69 | Equipment/Hardware Failure | 211 |

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5.a. 4901:1-10-10(C)(2) Transmission Circuit Interruption Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|----------------------------|---|---|---|
| Date Transmission Outage Began | Reference ID Of Transmission Circuit Impacted | Time Outage Occurred | Size (in kilovolts) Of Transmission Circuit Or Equipment Involved | Cause Of Outage Including Specific Type Of Equipment And/Or Facility Causing Interruption | Total Length Of Interruption (in minutes) |
| 07/06/2012 | 032 - 3265 | 2:59 pm | 69 | Equipment/Hardware Failure | 127 |
| 07/30/2012 | 041 - 4187 | 4:45 am | 138 | Weather, Wind Related | 1,272 |
| 07/31/2012 | 041 - 4187 | 11:32 pm | 138 | Weather, Wind Related | 191 |
| 08/04/2012 | 008 - 868 | 4:35 pm | 69 | Unknown | 5 |
| 08/09/2012 | 080 - 8062 | 12:37 am | 69 | Unknown | 137 |
| 08/27/2012 | 069 - 6962 | 1:41 am | 69 | Unknown | 126 |
| 09/02/2012 | 069 - 6961 | 7:29 pm | 69 | Tree, Fell | 64 |
| 09/05/2012 | 008 - 863 | 4:50 pm | 69 | Other | 5 |
| 10/01/2012 | 012 - 1263 | 5:45 pm | 69 | Unknown | 5 |

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5.a. 4901:1-10-10(C)(2) Transmission Circuit Interruption Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. |
|---|---|----------------------------|---|---|---|
| Date Transmission Outage Began | Reference ID Of Transmission Circuit Impacted | Time Outage Occurred | Size (in kilovolts) Of Transmission Circuit Or Equipment Involved | Cause Of Outage Including Specific Type Of Equipment And/Or Facility Causing Interruption | Total Length Of Interruption (in minutes) |
| 10/24/2012 | 006 - 661 | 11:54 pm | 69 | Unknown | 226 |
| 10/28/2012 | 008 - 863 | 12:05 pm | 69 | Unknown | 6 |
| 10/29/2012 | 008 - 863 | 2:06 pm | 69 | Unknown | 10 |
| 12/02/2012 | 038 - 3864 | 5:32 pm | 69 | Equipment/Hardware Failure | 242 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| 01/20/2012 | 3,991 | 221,153 | 3 | 165 - 41 | 746 | 33,570 |
| | | | | 165 - 42 | 1,356 | 61,020 |
| | | | | 353 - 42 | 1,889 | 126,563 |
| 01/20/2012 | 535 | 77,575 | 1 | 027 - 44 | 535 | 77,575 |
| 03/02/2012 | 3,175 | 2,745,458 | 8 | 301 - 41 | 185 | 140,785 |
| | | | | 301 - 42 | 105 | 33,075 |
| | | | | 301 - 42 | 8 | 11,040 |
| | | | | 301 - 42 | 5 | 7,290 |
| | | | | 354 - A | 0 | 0 |
| | | | | 359 - 41 | 1,491 | 1,139,124 |
| | | | | 359 - 41 | 1,381 | 1,414,144 |
| | | | | 359 - A | 0 | 0 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| 03/16/2012 | 446 | 20,070 | 1 | 115 - 41 | 446 | 20,070 |
| 04/23/2012 | 2 | 534 | 1 | 158 - 42 | 2 | 534 |
| 06/07/2012 | 4,194 | 55,138 | 4 | 181 - 41 | 1,858 | 24,154 |
| | | | | 181 - 42 | 2,322 | 30,186 |
| | | | | 186 - 51 | 7 | 91 |
| | | | | 186 - 51 | 7 | 707 |
| 06/12/2012 | 429 | 3,003 | 1 | 027 - 41 | 429 | 3,003 |
| 07/03/2012 | 11,374 | 2,339,034 | 13 | 046 - 51 | 49 | 3,724 |
| | | | | 046 - 51 | 49 | 686 |
| | | | | 052 - 41 | 1,257 | 214,947 |
| | | | | 052 - 42 | 1,714 | 296,522 |
| | | | | 052 - 43 | 1,673 | 292,775 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 052 - 44 | 1,071 | 188,496 |
| | | | | 091 - 41 | 109 | 38,477 |
| | | | | 091 - 42 | 415 | 146,495 |
| | | | | 091 - 43 | 1,008 | 355,824 |
| | | | | 091 - 44 | 563 | 159,892 |
| | | | | 165 - 41 | 732 | 132,492 |
| | | | | 165 - 42 | 1,337 | 244,671 |
| | | | | 288 - 41 | 1,397 | 264,033 |
| 07/03/2012 | 379 | 2,684 | 3 | 038 - 41 | 78 | 468 |
| | | | | 038 - 42 | 299 | 1,794 |
| | | | | 140 - 41 | 2 | 422 |
| 07/06/2012 | 6,102 | 774,954 | 5 | 108 - 41 | 1,379 | 175,133 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 108 - 42 | 644 | 81,788 |
| | | | | 108 - 43 | 950 | 120,650 |
| | | | | 150 - 41 | 1,358 | 172,466 |
| | | | | 150 - 42 | 1,771 | 224,917 |
| 07/30/2012 | 4,853 | 434,604 | 7 | 008 - 47 | 0 | 0 |
| | | | | 041 - 43 | 2,040 | 122,400 |
| | | | | 041 - 45 | 451 | 27,060 |
| | | | | 041 - 46 | 1,318 | 79,080 |
| | | | | 259 - A | 666 | 39,960 |
| | | | | 259 - B | 376 | 163,560 |
| | | | | 259 - B | 2 | 2,544 |
| 07/31/2012 | 6,172 | 234,698 | 10 | 008 - 47 | 19 | 3,629 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 008 - 54 | 197 | 30,141 |
| | | | | 027 - 43 | 514 | 9,252 |
| | | | | 027 - 44 | 530 | 9,540 |
| | | | | 041 - 43 | 2,041 | 67,353 |
| | | | | 041 - 45 | 457 | 15,081 |
| | | | | 041 - 46 | 1,324 | 43,692 |
| | | | | 107 - A | 167 | 25,551 |
| | | | | 259 - A | 923 | 30,459 |
| | | | | 259 - B | 0 | 0 |
| 08/04/2012 | 6,399 | 0 | 4 | 283 - 41 | 1,107 | 0 |
| | | | | 283 - 42 | 2,476 | 0 |
| | | | | 283 - 43 | 534 | 0 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 283 - 44 | 2,282 | 0 |
| 08/09/2012 | 4,429 | 487,744 | 4 | 322 - 41 322 - 42 361 - 41 361 - 42 | 928 284 1,479 1,738 | 127,136 38,908 147,900 173,800 |
| 08/27/2012 | 3,172 | 398,741 | 2 | 212 - 41 212 - 42 | 2,241 931 | 282,366 116,375 |
| 09/02/2012 | 3,921 | 248,728 | 2 | 318 - 41 318 - 42 | 1,705 2,216 | 109,120 139,608 |
| 09/05/2012 | 1,041 | 0 | 2 | 027 - 43 027 - 44 | 429 612 | 0 0 |
| 10/01/2012 | 908 | | 7 | 021 - 42 | 5 | 0 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 021 - 47 | 17 | 0 |
| | | | | 021 - 49 | 0 | 0 |
| | | | | 021 - A | 106 | 0 |
| | | | | 021 - C | 333 | 0 |
| | | | | 021 - D | 232 | 0 |
| | | | | 021 - F | 215 | 0 |
| 10/24/2012 | 4,136 | 272,695 | 5 | 006 - 41 | 832 | 16,640 |
| | | | | 006 - 42 | 1,487 | 32,714 |
| | | | | 006 - 43 | 179 | 7,518 |
| | | | | 006 - 44 | 753 | 15,813 |
| | | | | 006 - 46 | 885 | 200,010 |
| 10/28/2012 | 1,049 | 6,294 | 2 | 027 - 43 | 427 | 2,562 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|------------------------------------|---|--|--|---|--|---|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 027 - 44 | 622 | 3,732 |
| 10/29/2012 | 1,050 | 10,500 | 2 | 027 - 43 | 428 | 4,280 |
| | | | | 027 - 44 | 622 | 6,220 |
| 12/02/2012 | 19,749 | 344,185 | 16 | 052 - 41 | 1,285 | 23,130 |
| | | | | 052 - 41 | 1,285 | 25,700 |
| | | | | 052 - 42 | 1,721 | 30,978 |
| | | | | 052 - 42 | 1,721 | 34,420 |
| | | | | 052 - 43 | 1,693 | 30,474 |
| | | | | 052 - 43 | 1,693 | 33,860 |
| | | | | 052 - 44 | 1,066 | 20,254 |
| | | | | 052 - 44 | 1,066 | 21,320 |
| | | | | 165 - 41 | 0 | 0 |

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5.b. 4901:1-10-10(C)(2) Distribution Circuits Impacted By Transmission Outage(s) Supporting Data ... Continued ...

| 1. | 2. | 3. | 4. | 5. | 6. | 7. |
|--|--|---|---|--|---|--|
| Date The Transmission Outage Began | Customers Interrupted Per Transmission Outage | Customer Minutes Interrupted Per Transmission Outage | The Number Of Distribution Circuits Impacted | Circuit Reference ID For Each Of The Distribution Circuits Impacted By The Interruption | Customers Interrupted By Distribution Circuit Reference ID | Customer Minutes Interrupted By Distribution Circuit Reference ID |
| | | | | 165 - 41 | 738 | 4,428 |
| | | | | 165 - 42 | 1,367 | 9,569 |
| | | | | 183 - 41 | 1,218 | 21,924 |
| | | | | 183 - 42 | 1,461 | 26,298 |
| | | | | 183 - 43 | 719 | 12,942 |
| | | | | 353 - 41 | 82 | 1,476 |
| | | | | 353 - 42 | 2,634 | 47,412 |

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5.c. 4901:1-10-10(C)(2) Index Values During Transmission Outage(s) Supporting Data

| 1. | 2. | 3. |
|--------------------------------|--------------------------------------|----------------------------|
| Date Transmission Outage Began | CAIDI For Period Of Outage (minutes) | SAIFI For Period Of Outage |
| 01/20/2012 | 55 | 0.01 |
| 01/20/2012 | 145 | 0.00 |
| 03/02/2012 | 865 | 0.00 |
| 03/16/2012 | 45 | 0.00 |
| 04/23/2012 | 267 | 0.00 |
| 06/07/2012 | 13 | 0.01 |
| 06/12/2012 | 7 | 0.00 |
| 07/03/2012 | 206 | 0.02 |
| 07/03/2012 | 7 | 0.00 |

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5.c. 4901:1-10-10(C)(2) Index Values During Transmission Outage(s) Supporting Data

... Continued ...

| 1. | 2. | 3. |
|--------------------------------|--------------------------------------|----------------------------|
| Date Transmission Outage Began | CAIDI For Period Of Outage (minutes) | SAIFI For Period Of Outage |
| 07/06/2012 | 127 | 0.01 |
| 07/30/2012 | 90 | 0.01 |
| 07/31/2012 | 38 | 0.01 |
| 08/04/2012 | 0 | 0.01 |
| 08/09/2012 | 110 | 0.01 |
| 08/27/2012 | 126 | 0.00 |
| 09/02/2012 | 63 | 0.01 |
| 09/05/2012 | 0 | 0.00 |
| 10/01/2012 | 0 | 0.00 |

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5.c. 4901:1-10-10(C)(2) Index Values During Transmission Outage(s) Supporting Data

... Continued ...

| 1. | 2. | 3. |
|--------------------------------|--------------------------------------|----------------------------|
| Date Transmission Outage Began | CAIDI For Period Of Outage (minutes) | SAIFI For Period Of Outage |
| 10/24/2012 | 66 | 0.01 |
| 10/28/2012 | 6 | 0.00 |
| 10/29/2012 | 10 | 0.00 |
| 12/02/2012 | 17 | 0.03 |

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

| Outage Cause | Events | Customers Interrupted | Customer Minutes Interrupted |
|----------------------|---------------|------------------------------|-------------------------------------|
| Animal/Bird | 2,335 | 68,305 | 6,028,391 |
| Auto Damage | 934 | 125,800 | 10,979,392 |
| Crew Planned Outage | 5,804 | 41,239 | 3,288,853 |
| Equipment Failure | 4,254 | 202,848 | 23,612,918 |
| Lightning | 782 | 30,061 | 3,421,517 |
| Other | 7,096 | 73,986 | 5,656,528 |
| Transmission Trouble | | | |
| Tree Fell | 3,096 | 124,450 | 15,345,614 |
| Unknown | 2,372 | 35,466 | 2,963,267 |
| Weather | 655 | 43,602 | 5,711,545 |

Notes

Duke Energy Ohio does not presently have an Outage Cause of Transmission Trouble. Instead, outages originating on the transmission system are identified using the Clearing Device field where a value of "11" means a transmission device has operated.

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

| Outage Cause | Events | Customers Interrupted | Customer Minutes Interrupted |
|----------------------|---------------|------------------------------|-------------------------------------|
| Animal/Bird | 27 | 418 | 42,414 |
| Auto Damage | 18 | 320 | 136,122 |
| Crew Planned Outage | 30 | 177 | 38,338 |
| Equipment Failure | 171 | 17,559 | 8,781,579 |
| Lightning | 237 | 19,022 | 9,859,653 |
| Other | 586 | 8,474 | 5,696,317 |
| Transmission Trouble | | | |
| Tree Fell | 1,479 | 190,186 | 129,890,811 |
| Unknown | 283 | 19,716 | 11,778,279 |
| Weather | 1,106 | 161,545 | 81,663,834 |

Notes

Duke Energy Ohio does not presently have an Outage Cause of Transmission Trouble. Instead, outages originating on the transmission system are identified using the Clearing Device field where a value of "11" means a transmission device has operated.

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

| Outage Cause | Events | Customers Interrupted | Customer Minutes Interrupted |
|----------------------|---------------|------------------------------|-------------------------------------|
| Animal/Bird | | | |
| Auto Damage | 18 | 20,624 | 367,258 |
| Crew Planned Outage | | | |
| Equipment Failure | 49 | 36,371 | 3,700,346 |
| Lightning | 7 | 4,853 | 434,604 |
| Other | 3 | 3,174 | 399,275 |
| Transmission Trouble | | | |
| Tree Fell | 4 | 4,429 | 487,744 |
| Unknown | 10 | 9,918 | 294,379 |
| Weather | 12 | 8,137 | 2,994,186 |

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

Total Number = 1,105,849

This foregoing document was electronically filed with the Public Utilities

Commission of Ohio Docketing Information System on

3/21/2013 2:49:18 PM

in

Case No(s). 13-0723-EL-ESS

Summary: Report ANNUAL REPORT OF THE DUKE ENERGY OHIO COMPANY
electronically filed by Carys Cochern on behalf of Duke Energy