

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

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

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

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

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

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

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

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

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

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

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

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

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

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 - 41 165 - 42 353 - 42	746 1,356 1,889	33,570 61,020 126,563
01/20/2012	535	77,575	1	027 - 44	535	77,575
03/02/2012	3,175	2,745,458	8	301 - 41 301 - 42 301 - 42 301 - 42 354 - A 359 - 41 359 - 41 359 - A	185 105 8 5 0 1,491 1,381 0	140,785 33,075 11,040 7,290 0 1,139,124 1,414,144 0

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

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

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

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

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

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

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

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

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

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	928	127,136
				322 - 42	284	38,908
				361 - 41	1,479	147,900
				361 - 42	1,738	173,800
08/27/2012	3,172	398,741	2	212 - 41	2,241	282,366
				212 - 42	931	116,375
09/02/2012	3,921	248,728	2	318 - 41	1,705	109,120
				318 - 42	2,216	139,608
09/05/2012	1,041	0	2	027 - 43	429	0
				027 - 44	612	0
10/01/2012	908		7	021 - 42	5	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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.

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

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.

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

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