

Electric Distribution Utility Annual Reliability Report APR 15 2016

**SECTION 1: CONTACT INFORMATION**

PUBLIC SERVICE  
COMMISSION

UTILITY NAME	Clark Energy Cooperative
REPORT PREPARED BY	Scott Sidwell
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**SECTION 2: REPORTING YEAR**

CALENDAR YEAR OF REPORT	2015
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**SECTION 3: MAJOR EVENT DAYS (MED)**

	$T_{MED}$	11.1395977
FIRST DATE USED TO DETERMINE $T_{MED}$		1/1/2010
LAST DATE USED TO DETERMINE $T_{MED}$		12/31/2014
NUMBER OF MED IN REPORT YEAR		1

NOTE: Per IEEE 1366  $T_{MED}$  should be calculated using the daily SAIDI values for the five prior years. If five years of data are not available, then utilities should use what is available until five years are accumulated.

**SECTION 4: SYSTEM RELIABILITY INFORMATION AND RESULTS**

**System-wide Information**

TOTAL CUSTOMERS	<u>25,691</u>	TOTAL CIRCUITS	<u>74</u>
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**Excluding MED**

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>144.92</u>	SAIDI	<u>198.29</u>
SAIFI	<u>1.53</u>	SAIFI	<u>1.53</u>

**Including MED**

	5 YEAR AVERAGE		REPORTING YEAR
SAIDI	<u>304.78</u>	SAIDI	<u>357.99</u>
SAIFI	<u>2.01</u>	SAIFI	<u>1.79</u>

Notes:

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of May of each year
- 3) Reports cover the calendar year ending in the December before the reports are due.
- 4) IEEE 1366 (latest version) is used to define SAIDI, SAIFI, and  $T_{MED}$

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**SECTION 6: VEGETATION MANAGEMENT PLAN REVIEW**

**INCLUDE CURRENT VEGETATION MANAGEMENT PLAN**

Additional page may be attached as needed.

Clark Energy continues to have a strong ROW program with backing from our board of directors who have increased budgeting for the program the last several years. Currently we have contractors clearing approximately 300 miles of line for 2016 and spraying 239 miles of line that was cleared in previous years.

We are meeting our goal of completing a rotation and plan next year to start the second rotation around our system.

## SECTION 7: UTILITY COMMENTS

2016 was a bad weather year for Clark Energy with our SAIDI numbers exceeding our five year average both with MED and without. Especially hard hit was one of our eastern most counties that happen to be in a rough, heavily wooded area of the system.

Clark Energy has several small, short substation circuits that are susceptible to a few larger outages pushing the SAIDI numbers past the five year average.

With a new four year work plan in place, we expect to make improvements by upgrading lines with potential load problems and continuing to change out small, problem conductors and old porcelain cutouts.

SAIDI & SAIFI for all Substations						
ElementName	5 Yr Ave	2015.00	5 Yr Ave	2015.00		
	SAIDI	SAIDI	SAIFI	SAIFI		
BLEVAL2	86.78	725.14	0.93	3.89		
BOWEN1	152.01	548.69	0.89	3.12		
CAVERUN1	403.05	560.74	1.32	2.51		
CLAYCTY1	28.18	55.21	0.29	0.89		
FRNBURG1	102.56	404.37	1.03	3.46		
FRNBURG3	53.83	217.15				
FRNBURG4	472.35	1138.16	3.90	5.53		
HARDWICKS1	104.52	367.71	1.12	2.31		
HARDWICKS2	17.25	54.39	0.19	0.73		
HARDWICKS3	49.02	106.63	0.68	1.06		
HINKSTON1	1.16	9.05	0.01	0.08		
HOPE1	42.14	109.79	0.35	1.12		
HOPE2	42.74	57.73				
HOPE3	111.32	217.46	1.10	3.21		
HUNT1	66.12	70.00				
HUNT3	153.56	419.66	1.71	2.80		
JVILLE1	83.41	250.72	1.12	2.28		
JVILLE2	122.16	153.44	1.29	1.31		
MARIBA2	126.35	184.26	1.66	2.78		
MILLER HUNT3	93.91	172.92	0.92	1.08		
RDVILLAGE2	39.81	59.17				
SIDEVIEW2	142.37	239.58	1.41	1.48		
SIDEVIEW3	64.88	130.87	0.64	1.11		
SIDEVIEW4	97.69	183.86	1.10	1.34		
STANTON2	21.53	49.20	0.32	1.25		

	STANTON3	39.19	68.27				
	STANTON5	42.83	53.48				
	THRFRKS1	48.83	243.08		0.38	2.95	
	THRFRKS2	63.79	194.11		0.79	1.40	
	THRFRKS3	91.54	303.29		1.06	1.99	
	TRAPP2	59.28	98.01				
	TRAPP3	33.32	162.46		0.32	1.07	
	TREEHAVEN2	13.25	146.79		0.11	0.76	
	TREEHAVEN4	24.27	102.06		0.40	1.06	
	VANMTR1	111.31	251.64				
	VANMTR2	25.45	44.90		0.37	0.48	
	VANMTR3	81.72	161.49		0.90	1.77	

<b>SECTION 5: CIRCUIT REPORTING</b>								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Blevins Valley E-100							
2.	Substation Location (County-Road-Town) Bath County, Blevins Valley Road, Owensville							
3.	Circuit name and number - Blevins Valley Ct. 2							
4.	Circuit Location (town-Road) Owensville, Old State Road, Sour Springs Road, Highway 36							
5.	Total circuit length (miles) - 43							
6.	Customer count for this circuit - 412							
7.	Date of last circuit trim (VM) - Currently being cleared - 2016							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)							
9.	Circuit 5 year average (SAIDI) 86.78							
10.	Reporting year (SAIDI) 2015 - 725.14							
11.	Circuit 5 year average (SAIFI) - 0.93							
12.	Reporting year (SAIFI) 2015 - 3.89							
13.	Corrective action plan (See attached document)							
<b>SECTION 7: UTILITY COMMENTS</b>								
		<div style="border: 1px solid black; padding: 5px;">                     A list of corrective actions for this circuit:                      1. ROW is being cleared for the whole circuit in 2016                 </div>						

Belvins Valley Substation - Circuit 1

Feeder	Cause	CustomersAffected	CustomerMinutes					
BLEVAL2	100 Construction	1	15					
BLEVAL2	100 Construction	5	560					
BLEVAL2	110 Maintenance	2	54					
BLEVAL2	110 Maintenance	1	36					
BLEVAL2	110 Maintenance	9	54					
BLEVAL2	110 Maintenance	9	198					
	Total	27	917					
BLEVAL2	300 Material or Equip Failure	1	115					
BLEVAL2	300 Material or Equip Failure	1	206					
BLEVAL2	300 Material or Equip Failure	1	98					
BLEVAL2	300 Material or Equip Failure	34	3468					
BLEVAL2	300 Material or Equip Failure	2	246					
BLEVAL2	300 Material or Equip Failure	1	63					
BLEVAL2	340 Overload	1	156					
BLEVAL2	340 Overload	2	100					
BLEVAL2	400 Decay Material/Equipment	3	939					
BLEVAL2	400 Decay Material/Equipment	2	388					
	Total	48	5779					
BLEVAL2	430 Tree failure without ice/snow	160	21030					
BLEVAL2	430 Tree failure without ice/snow	10	420					
BLEVAL2	430 Tree failure without ice/snow	26	3978					
BLEVAL2	430 Tree failure without ice/snow	2	442					
BLEVAL2	430 Tree failure without ice/snow	60	10020					
BLEVAL2	430 Tree failure without ice/snow	3	1614					
BLEVAL2	430 Tree failure without ice/snow	4	736					
BLEVAL2	430 Tree failure without ice/snow	230	82480					
BLEVAL2	430 Tree failure without ice/snow	30	3120					
BLEVAL2	430 Tree failure without ice/snow	1	343					
BLEVAL2	430 Tree failure without ice/snow	2	170					
BLEVAL2	430 Tree failure without ice/snow	413	108619					
BLEVAL2	430 Tree failure without ice/snow	170	10540					
BLEVAL2	430 Tree failure without ice/snow	28	4508					
BLEVAL2	430 Tree failure without ice/snow	234	28289					
BLEVAL2	440 Trees With Ice/Snow	20	2720					
	Total	1393	279029					
BLEVAL2	500 Lightning	1	96					
BLEVAL2	500 Lightning	9	936					

Belvins Valley Substation - Circuit 1

BLEVAL2	500 Lightning	413	47908				
BLEVAL2	500 Lightning	2	288				
BLEVAL2	590 Weather, Other	26	3874				
	Total	451	53102				
BLEVAL2	601 Squirrel	5	130				
BLEVAL2	710 Motor Vehicle	82	6970				
BLEVAL2	710 Motor Vehicle	1	105				
	Total	83	7075				
BLEVAL2	999 Cause Unknown	7	469				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	27	0.01	917	0%			
Maintanance issues	48	0.02	5779	2%			
Trees	1393	0.69	279029	81%			
Weather	451	0.22	53102	15%			
Motor vehicle	83	0.04	7075	2%			
Unknown	7	0.00	469	0%			
Animals	5	0.00	130	0%			
Totals	2014	1.00	346501	100.00%			
BLEVAL2	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	228.73	118.91	28.74	22.69	243.02	86.78	725.14
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	1.52	2.5	0.27	0.18	3.21	0.93	3.89



Bowen Substation - Circuit 1

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Bowen E58							
2.	Substation Location (County-Road-Town) Powell-Hwy 15-Bowen							
3.	Circuit name and number - Natural Bridge - F1							
4.	Circuit Location (town-Road) Bowen-Hwy 15							
5.	Total circuit length (miles) - 28.18							
6.	Customer count for this circuit - 328							
7.	Date of last circuit trim (VM) - 2015							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause							
	(See attached document)							
9.	Circuit 5 year average (SAIDI) 152.01							
10.	Reporting year (SAIDI) 2015 - 548.69							
11.	Circuit 5 year average (SAIFI) 0.89							
12.	Reporting year (SAIFI) 2015 - 3.12							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
		Corrective actions are not required. The reason for the above average planned outages were due to corrective actions being taken in 2015 to change out bad conductor with no available back feed.						
Feeder	Cause	CustomersAffected	CustomerMinutes					
BOWEN1	100 Construction	24	1896					
BOWEN1	100 Construction	2	124					

## Bowen Substation - Circuit 1

BOWEN1	100 Construction	2	274				
BOWEN1	100 Construction	3	39				
BOWEN1	100 Construction	1	21				
BOWEN1	100 Construction	3	1104				
BOWEN1	100 Construction	3	1923				
BOWEN1	100 Construction	3	1752				
BOWEN1	100 Construction	1	29				
BOWEN1	100 Construction	3	1602				
BOWEN1	100 Construction	3	1593				
BOWEN1	100 Construction	3	1866				
BOWEN1	100 Construction	3	1671				
BOWEN1	100 Construction	3	1194				
BOWEN1	100 Construction	8	1152				
BOWEN1	100 Construction	7	2233				
BOWEN1	100 Construction	1	223				
BOWEN1	100 Construction	8	2928				
BOWEN1	100 Construction	11	2992				
BOWEN1	100 Construction	16	3952				
BOWEN1	100 Construction	1	293				
BOWEN1	100 Construction	24	4656				
BOWEN1	100 Construction	24	7080				
BOWEN1	100 Construction	1	257				
BOWEN1	100 Construction	24	9288				
BOWEN1	100 Construction	24	8928				
BOWEN1	100 Construction	24	4392				
BOWEN1	100 Construction	16	3344				
BOWEN1	100 Construction	24	8160				
BOWEN1	100 Construction	24	10440				
BOWEN1	100 Construction	2	316				
BOWEN1	100 Construction	3	120				
BOWEN1	100 Construction	3	651				
BOWEN1	100 Construction	18	4050				
BOWEN1	100 Construction	1	69				
BOWEN1	100 Construction	2	196				
BOWEN1	100 Construction	1	170				
BOWEN1	100 Construction	1	108				
BOWEN1	100 Construction	1	171				
BOWEN1	100 Construction	1	141				
BOWEN1	100 Construction	32	5152				
BOWEN1	100 Construction	2	86				
BOWEN1	110 Maintenance	3	54				

## Bowen Substation - Circuit 1

	Total	364	96690				
BOWEN1	300 Material Failure	385	14245				
BOWEN1	300 Material Failure	2	184				
BOWEN1	340 Overload	14	770				
BOWEN1	490 Maintenance, Other	3	1545				
	Total	404	16744				
BOWEN1	430 Tree failure without ice/snow	3	3531				
BOWEN1	430 Tree failure without ice/snow	3	294				
BOWEN1	430 Tree failure without ice/snow	24	2712				
BOWEN1	430 Tree failure without ice/snow	8	700				
BOWEN1	430 Tree failure without ice/snow	3	102				
BOWEN1	430 Tree failure without ice/snow	24	5112				
BOWEN1	430 Tree failure without ice/snow	385	70823				
BOWEN1	430 Tree failure without ice/snow	7	1442				
BOWEN1	430 Tree failure without ice/snow	21	21315				
BOWEN1	430 Tree failure without ice/snow	1	155				
	Total	479	106186				
BOWEN1	500 Lightning	2	98				
BOWEN1	999 Cause Unknown	1	30				
		1250	219748				
	Customers Affected	% of SAIFI	CustomerMinutes	% of SAIDI			
Planned	364	0.291	96690	44.00%			
Maintanance issues	404	0.323	16744	7.62%			
Tree issues	479	0.383	106186	48.32%			
Weather	2	0.002	98	0.04%			
Animals	0	0.000	0	0.00%			
Unknown	1	0.001	30	0.01%			
	1250	1.000	219748	100.00%			
Bowen1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	211.08	82.74	26.46	38.63	401.15	152.01	548.69

Bowen Substation - Circuit 1

	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIFI	0.94	0.71	0.34	0.3	2.17	0.89	3.12	





Cave Run Substation - Circuit 1

SAIFI	3.23	1.26	1.44	0.27	2.45	1.32	2.51	

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Clay City E71							
2.	Substation Location (County-Road-Town) Powell-Shipp's Branch-Clay City							
3.	Circuit name and number - Virden Ridge Feeder - CT 1							
4.	Circuit Location (town-Road) Clay City- West Bend, Hwy 15							
5.	Total circuit length (miles) - 42.80							
6.	Customer count for this circuit - 649							
7.	Date of last circuit trim (VM) - 2010							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)							
9.	Circuit 5 year average (SAIDI) 28.18							
10.	Reporting year (SAIDI) 2015 -55.21							
11.	Circuit 5 year average (SAIFI)-0.29							
12.	Reporting year (SAIFI) 2015 -0.89							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
Corrective actions are not required								
Feeder	Cause	CustomersAffected	CustomerMinutes					
CLAYCTY1	100 Construction	1	44					
CLAYCTY1	100 Construction	5	70					
CLAYCTY1	100 Construction	1	123					
CLAYCTY1	100 Construction	1	124					



Clay City Substation - Circuit 1

CLAYCTY1	100 Construction	1	124				
CLAYCTY1	100 Construction	1	42				
CLAYCTY1	100 Construction	1	231				
CLAYCTY1	100 Construction	1	41				
CLAYCTY1	100 Construction	1	23				
CLAYCTY1	100 Construction	1	93				
CLAYCTY1	100 Construction	1	19				
CLAYCTY1	100 Construction	1	26				
CLAYCTY1	100 Construction	1	23				
CLAYCTY1	100 Construction	5	70				
CLAYCTY1	100 Construction	1	184				
CLAYCTY1	100 Construction	1	183				
CLAYCTY1	100 Construction	5	310				
CLAYCTY1	100 Construction	3	252				
CLAYCTY1	100 Construction	2	142				
CLAYCTY1	100 Construction	2	142				
CLAYCTY1	100 Construction	2	86				
CLAYCTY1	100 Construction	1	36				
CLAYCTY1	110 Maintenance	2	44				
CLAYCTY1	110 Maintenance	8	112				
CLAYCTY1	110 Maintenance	2	126				
CLAYCTY1	110 Maintenance	2	238				
	Total	53	2908				
CLAYCTY1	300 Equipment Fault/Failure	2	404				
CLAYCTY1	300 Equipment Fault/Failure	2	370				
CLAYCTY1	300 Equipment Fault/Failure	1	98				
CLAYCTY1	300 Equipment Fault/Failure	1	95				
CLAYCTY1	340 Overload	3	954				
CLAYCTY1	400 Decay of Material	5	695				
CLAYCTY1	400 Decay of Material	19	2394				
CLAYCTY1	400 Decay of Material	28	1636				
CLAYCTY1	400 Decay of Material	1	45				
CLAYCTY1	490 Maintenance, Other	5	270				
	Total	67	6961				
CLAYCTY1	430 Tree failure without ice/snow	19	3724				
CLAYCTY1	430 Tree failure without ice/snow	23	644				
CLAYCTY1	430 Tree failure without ice/snow	1	87				
CLAYCTY1	430 Tree failure without ice/snow	1	333				
CLAYCTY1	430 Tree failure without ice/snow	29	37294				

Clay City Substation - Circuit 1

CLAYCTY1	430 Tree failure without ice/snow	2	296				
CLAYCTY1	430 Tree failure without ice/snow	29	3558				
CLAYCTY1	430 Tree failure without ice/snow	2	262				
	Total	106	46198				
CLAYCTY1	500 Lightning	1	21				
CLAYCTY1	500 Lightning	4	340				
CLAYCTY1	500 Lightning	4	232				
CLAYCTY1	500 Lightning	1	46				
	Total	10	639				
CLAYCTY1	600 Small Animal/Bird	254	6350				
CLAYCTY1	600 Small Animal/Bird	23	1495				
CLAYCTY1	601 Squirrel	3	138				
CLAYCTY1	601 Squirrel	1	40				
CLAYCTY1	601 Squirrel	1	32				
CLAYCTY1	601 Squirrel	5	140				
CLAYCTY1	601 Squirrel	6	324				
CLAYCTY1	601 Squirrel	3	351				
CLAYCTY1	601 Squirrel	3	270				
CLAYCTY1	601 Squirrel	1	33				
CLAYCTY1	601 Squirrel	3	93				
	Total	303	9266				
CLAYCTY1	710 Motor Vehicle	4	352				
CLAYCTY1	740 Public Cuts Tree	8	288				
CLAYCTY1	740 Public Cuts Tree	8	240				
	Total	20	880				
CLAYCTY1	999 Cause Unknown	4	260				
CLAYCTY1	999 Cause Unknown	14	742				
CLAYCTY1	999 Cause Unknown	23	4462				
CLAYCTY1	999 Cause Unknown	18	1458				
	Total	59	6922				
	Total	618	73774				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Public causes	20	0.03	880	1.19%			
Planned	53	0.09	2908	3.94%			

Clay City Substation - Circuit 1

Maintanance issues	67	0.11	6961	9.44%				
Unknown	59	0.10	6922	9.38%				
Trees	106	0.17	46198	62.62%				
Weather	10	0.02	639	0.87%				
Animals	303	0.49	9266	12.56%				
	618	1.00	73774	100.00%				
Clay City 1	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIDI	42.86	27.76	20.86	10.74	38.68	28.18	55.21	
	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIFI	0.19	0.26	0.27	0.16	0.59	0.29	0.89	



Frenchburg Substation - Circuit 1

FRNBURG1	100 Construction	2	88				
FRNBURG1	100 Construction	1	81				
	Total	3	169				
FRNBURG1	300 Material Failure	4	592				
FRNBURG1	300 Material Failure	368	32784				
FRNBURG1	300 Material Failure	2	178				
FRNBURG1	300 Material Failure	70	2590				
	Total	444	36144				
FRNBURG1	340 Overload	3	207				
FRNBURG1	340 Overload	3	81				
	Total	6	288				
FRNBURG1	420 Tree Growth	8	264				
FRNBURG1	420 Tree Growth	2	94				
	Total	10	358				
FRNBURG1	430 Tree failure without ice/snow	9	3933				
FRNBURG1	430 Tree failure without ice/snow	1	142				
FRNBURG1	430 Tree failure without ice/snow	1	131				
FRNBURG1	430 Tree failure without ice/snow	54	19926				
FRNBURG1	430 Tree failure without ice/snow	1	728				
FRNBURG1	430 Tree failure without ice/snow	413	56309				
FRNBURG1	430 Tree failure without ice/snow	7	2478				
FRNBURG1	430 Tree failure without ice/snow	3	594				
FRNBURG1	430 Tree failure without ice/snow	9	558				
FRNBURG1	430 Tree failure without ice/snow	1	126				
FRNBURG1	430 Tree failure without ice/snow	5	755				
	Total	504	85680				
FRNBURG1	500 Lightning	141	9064				
FRNBURG1	500 Lightning	2	68				
FRNBURG1	500 Lightning	1	199				
FRNBURG1	500 Lightning	8	344				
	Total	152	9675				
FRNBURG1	601 Squirrel	3	249				
FRNBURG1	601 Squirrel	2	134				
FRNBURG1	612 Animal/Large Bird	367	55050				

Frenchburg Substation - Circuit 1

	Total	372	55433				
FRNBURG1	710 Motor Vehicle	1	136				
	Total	1492	187883				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	3	0.00	169	0.09%			
Maintanance issues	444	0.30	36144	19.24%			
Overload	6	0.00	288	0.15%			
Tree growth	10	0.01	358	0.19%			
Trees out of ROW	504	0.34	85680	45.60%			
Animal	372	0.25	55433	29.50%			
Public	1	0.00	136	0.07%			
Weather	152	0.10	9675	5.15%			
Total	1492	1.00	187883	100.00%			
Bowen1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	160.94	23.65	36.78	42.06	324.44	102.56	404.37
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	2.31	1.29	0.58	1.51	3.4	1.03	3.46



Frenchburg Substation - Circuit 3

FRNBURG3	100 Construction	13	770				
FRNBURG3	110 Maintenance	2	724				
FRNBURG3	110 Maintenance	1	13				
	Total	44	1949				
FRNBURG3	400 Decay of Material	12	192				
FRNBURG3	420 Tree Growth	30	1428				
FRNBURG3	430 Tree failure without ice/snow	4	100				
FRNBURG3	430 Tree failure without ice/snow	12	1176				
FRNBURG3	430 Tree failure without ice/snow	18	846				
FRNBURG3	430 Tree failure without ice/snow	10	1904				
FRNBURG3	430 Tree failure without ice/snow	4	984				
FRNBURG3	430 Tree failure without ice/snow	38	18115				
FRNBURG3	430 Tree failure without ice/snow	97	38858				
FRNBURG3	430 Tree failure without ice/snow	1	968				
FRNBURG3	430 Tree failure without ice/snow	1	331				
FRNBURG3	430 Tree failure without ice/snow	11	1936				
FRNBURG3	430 Tree failure without ice/snow	25	1675				
	Total	221	66893				
FRNBURG3	500 Lightning	4	472				
FRNBURG3	500 Lightning	25	27125				
FRNBURG3	500 Lightning	9	639				
	Total	38	28236				
	Total	345	98698				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	44	0.13	1949	1.97%			
Maintanance issues	12	0.03	192	0.19%			
Tree Growth	30	0.09	1428	1.45%			
Trees	221	0.64	66893	67.78%			
Weather	38	0.11	28236	28.61%			
	345	1.00	98698	100.00%			
Frenchburg 3	2011	2012	2013	2014	5 Yr Ave	2015	
SAIDI	23.65	36.78	42.06	324.44	53.83	217.15	





Frenchburg Substation - Circuit 4

FRNBURG4	100 Construction	1	92					
FRNBURG4	100 Construction	1	28					
FRNBURG4	100 Construction	3	708					
FRNBURG4	100 Construction	5	1180					
FRNBURG4	100 Construction	3	291					
FRNBURG4	100 Construction	3	228					
FRNBURG4	110 Maintenance	3	162					
FRNBURG4	110 Maintenance	1	13					
FRNBURG4	110 Maintenance	1	7					
FRNBURG4	110 Maintenance	3	102					
FRNBURG4	110 Maintenance	1	32					
FRNBURG4	110 Maintenance	3	123					
FRNBURG4	110 Maintenance	19	1216					
	Total	63	4992					
FRNBURG4	300 Material Failure	4	120					
FRNBURG4	300 Material Failure	14	700					
FRNBURG4	300 Material Failure	3	1143					
FRNBURG4	300 Material Failure	2	170					
FRNBURG4	300 Material Failure	5	725					
FRNBURG4	300 Material Failure	22	1694					
	Total	50	4552					
FRNBURG4	430 Tree failure without ice/snow	2	242					
FRNBURG4	430 Tree failure without ice/snow	171	38857					
FRNBURG4	430 Tree failure without ice/snow	6	276					
FRNBURG4	430 Tree failure without ice/snow	3	219					
FRNBURG4	430 Tree failure without ice/snow	15	675					
FRNBURG4	430 Tree failure without ice/snow	90	39182					
FRNBURG4	430 Tree failure without ice/snow	3	1110					
FRNBURG4	430 Tree failure without ice/snow	3	831					
FRNBURG4	430 Tree failure without ice/snow	14	1134					
FRNBURG4	430 Tree failure without ice/snow	56	7448					
FRNBURG4	430 Tree failure without ice/snow	171	20862					
FRNBURG4	430 Tree failure without ice/snow	87	15051					
FRNBURG4	430 Tree failure without ice/snow	90	29610					
FRNBURG4	430 Tree failure without ice/snow	171	51813					
FRNBURG4	430 Tree failure without ice/snow	15	4230					
FRNBURG4	430 Tree failure without ice/snow	22	3904					
FRNBURG4	430 Tree failure without ice/snow	171	10944					
FRNBURG4	430 Tree failure without ice/snow	15	20610					

Frenchburg Substation - Circuit 4

FRNBURG4	430 Tree failure without ice/snow	878	2038474				
FRNBURG4	430 Tree failure without ice/snow	142	242906				
FRNBURG4	430 Tree failure without ice/snow	28	122920				
FRNBURG4	430 Tree failure without ice/snow	62	88660				
FRNBURG4	430 Tree failure without ice/snow	6	7806				
FRNBURG4	430 Tree failure without ice/snow	143	164307				
FRNBURG4	430 Tree failure without ice/snow	1	1343				
FRNBURG4	430 Tree failure without ice/snow	56	165704				
FRNBURG4	430 Tree failure without ice/snow	22	31287				
FRNBURG4	430 Tree failure without ice/snow	92	36816				
FRNBURG4	430 Tree failure without ice/snow	87	23403				
FRNBURG4	430 Tree failure without ice/snow	9	6561				
FRNBURG4	430 Tree failure without ice/snow	6	2622				
FRNBURG4	430 Tree failure without ice/snow	10	730				
FRNBURG4	430 Tree failure without ice/snow	28	12460				
FRNBURG4	430 Tree failure without ice/snow	18	5350				
FRNBURG4	430 Tree failure without ice/snow	171	73425				
FRNBURG4	430 Tree failure without ice/snow	171	14193				
FRNBURG4	430 Tree failure without ice/snow	171	1368				
FRNBURG4	430 Tree failure without ice/snow	171	54768				
FRNBURG4	430 Tree failure without ice/snow	43	19651				
FRNBURG4	430 Tree failure without ice/snow	16	2112				
FRNBURG4	430 Tree failure without ice/snow	28	18312				
FRNBURG4	430 Tree failure without ice/snow	143	63492				
FRNBURG4	430 Tree failure without ice/snow	1	128				
FRNBURG4	430 Tree failure without ice/snow	5	265				
FRNBURG4	430 Tree failure without ice/snow	171	24624				
FRNBURG4	430 Tree failure without ice/snow	26	5122				
FRNBURG4	430 Tree failure without ice/snow	973	230601				
FRNBURG4	430 Tree failure without ice/snow	733	22413				
FRNBURG4	430 Tree failure without ice/snow	56	1792				
FRNBURG4	430 Tree failure without ice/snow	3	153				
FRNBURG4	430 Tree failure without ice/snow	89	15308				
FRNBURG4	440 Trees With Ice/Snow	28	13076				
FRNBURG4	440 Trees With Ice/Snow	13	1573				
	Total	5705	3760723				
FRNBURG4	490 Maintenance, Other	28	13720				
FRNBURG4	490 Maintenance, Other	56	16240				
FRNBURG4	490 Maintenance, Other	17	1467				
	Total	101	31427				

Frenchburg Substation - Circuit 4

FRNBURG4	500 Lightning	3	318				
FRNBURG4	500 Lightning	9	261				
FRNBURG4	500 Lightning	142	23004				
FRNBURG4	500 Lightning	9	765				
FRNBURG4	500 Lightning	2	262				
FRNBURG4	500 Lightning	973	98928				
FRNBURG4	500 Lightning	24	10800				
FRNBURG4	500 Lightning	10	4560				
FRNBURG4	500 Lightning	6	2628				
FRNBURG4	500 Lightning	9	2673				
FRNBURG4	500 Lightning	5	915				
FRNBURG4	500 Lightning	3	207				
FRNBURG4	500 Lightning	9	1350				
FRNBURG4	500 Lightning	8	2096				
FRNBURG4	500 Lightning	31	1488				
FRNBURG4	500 Lightning	56	4424				
FRNBURG4	500 Lightning	23	2300				
	Total	1322	156979				
FRNBURG4	601 Squirrel	14	1274				
FRNBURG4	601 Squirrel	14	1148				
FRNBURG4	601 Squirrel	28	3992				
FRNBURG4	612 Animal/Large Bird	2	128				
	Total	58	6542				
FRNBURG4	740 Public Cuts Tree	24	1800				
FRNBURG4	999 Cause Unknown	973	38920				
FRNBURG4	999 Cause Unknown	3	222				
FRNBURG4	999 Cause Unknown	3	240				
	Total	979	39382				
	Total	8302	4006397				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Maintanance other	101	0.01	31427	0.78%			
Public causes	24	0.00	1800	0.04%			
Planned	63	0.01	4992	0.12%			
Maintanance issues	50	0.01	4552	0.11%			

Frenchburg Substation - Circuit 4

Unknown	979	0.12	39382	0.98%			
Trees	5705	0.69	3760723	93.87%			
Weather	1322	0.16	156979	3.92%			
Animals	58	0.01	6542	0.16%			
	8302	1.00	4006397	100.00%			
Frenchburg 3	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	160.94	23.65	36.78	42.06	324.44	472.35	1138.16



Hardwicks Creek Substation - Circuit 1

HARDWICKS1	100 Construction	1	163				
HARDWICKS1	100 Construction	3	276				
HARDWICKS1	100 Construction	2	86				
HARDWICKS1	100 Construction	1	108				
HARDWICKS1	100 Construction	2	266				
HARDWICKS1	100 Construction	2	208				
HARDWICKS1	100 Construction	1	108				
HARDWICKS1	100 Construction	2	278				
HARDWICKS1	100 Construction	1	154				
HARDWICKS1	100 Construction	2	308				
HARDWICKS1	100 Construction	2	202				
HARDWICKS1	100 Construction	3	303				
HARDWICKS1	100 Construction	1	100				
HARDWICKS1	100 Construction	1	144				
HARDWICKS1	100 Construction	1	144				
HARDWICKS1	100 Construction	1	133				
HARDWICKS1	100 Construction	1	126				
HARDWICKS1	100 Construction	1	126				
HARDWICKS1	100 Construction	1	94				
HARDWICKS1	100 Construction	1	67				
HARDWICKS1	100 Construction	1	261				
HARDWICKS1	100 Construction	1	260				
HARDWICKS1	100 Construction	1	71				
HARDWICKS1	100 Construction	1	39				
HARDWICKS1	100 Construction	1	38				
HARDWICKS1	100 Construction	1	66				
HARDWICKS1	100 Construction	2	204				
HARDWICKS1	100 Construction	6	1674				
HARDWICKS1	110 Maintenance	3	75				
HARDWICKS1	110 Maintenance	3	63				
HARDWICKS1	110 Maintenance	82	2214				
HARDWICKS1	110 Maintenance	6	1152				
HARDWICKS1	110 Maintenance	2	488				
		140	9999				
HARDWICKS1	300 Material Failure	4	212				
HARDWICKS1	400 Decay Material/Equipment	6	522				
		10	734				
HARDWICKS1	420 Tree Growth	4	416				

Hardwicks Creek Substation - Circuit 1

HARDWICKS1	420 Tree Growth	4	248			
HARDWICKS1	420 Tree Growth	290	17400			
		298	18064			
HARDWICKS1	430 Tree failure without ice/snow	2	160			
HARDWICKS1	430 Tree failure without ice/snow	17	7650			
HARDWICKS1	430 Tree failure without ice/snow	17	18989			
HARDWICKS1	430 Tree failure without ice/snow	26	28522			
HARDWICKS1	430 Tree failure without ice/snow	1	906			
HARDWICKS1	430 Tree failure without ice/snow	403	69719			
HARDWICKS1	430 Tree failure without ice/snow	1	56			
		467	126002			
HARDWICKS1	500 Lightning	6	546			
HARDWICKS1	500 Lightning	6	546			
HARDWICKS1	500 Lightning	6	1050			
		18	2142			
HARDWICKS1	601 Squirrel	6	354			
HARDWICKS1	740 Public Cuts Tree	5	275			
HARDWICKS1	740 Public Cuts Tree	7	889			
		12	1164			
HARDWICKS1	999 Cause Unknown	14	168			
	Total	965	158627			
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI		
Public	12	0.01	1164	0.73%		
Planned	140	0.15	9999	6.30%		
Maintanance issues	10	0.01	734	0.46%		
Tree growth	298	0.31	18064	11.39%		
Unknown	14	0.01	168	0.11%		
Trees	467	0.48	126002	79.43%		
Weather	18	0.02	2142	1.35%		
Animals	6	0.01	354	0.22%		
	965	1.00	158627	100.00%		



Hardwicks Creek Substation - Circuit 1

	2010	2011	2012	2013	2014	5 Yr Ave	2015
Hardwicks Creek 1							
SAIDI	5.74	214.67	60.11	55.67	186.42	104.52	367.71
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.09	2.34	0.5	1.25	1.4	1.12	2.31

SECTION 5: CIRCUIT REPORTING							
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)							
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)							
1.	Substation Name and number - Hardwicks Creek E66						
2.	Substation Location (County-Road-Town) Powell-Happy Top-Clay City						
3.	Circuit name and number - Drag Strip Circuit - CT 2						
4.	Circuit Location (town-Road) Clay City-Hardwicks Creek						
5.	Total circuit length (miles) - 6.27						
6.	Customer count for this circuit - 98						
7.	Date of last circuit trim (VM) - 2011						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)						
9.	Circuit 5 year average (SAIDI) 17.25						
10.	Reporting year (SAIDI) 2015 - 54.39						
11.	Circuit 5 year average (SAIFI) 0.19						
12.	Reporting year (SAIFI) 2015 -0.73						
13.	Corrective action plan (See attached document)						
SECTION 7: UTILITY COMMENTS							
			Corrective actions are not required				
Feeder	Cause	CustomersAffected	CustomerMinutes				
HARDWICKS2	100 Construction	3	285				

Hardwicks Creek Substation Circuit 2

HARDWICKS2	100 Construction	1	66				
		4	351				
HARDWICKS2	430 Tree failure without ice/snow	7	826				
HARDWICKS2	500 Lightning	3	123				
HARDWICKS2	601 Squirrel	1	91				
HARDWICKS2	601 Squirrel	7	343				
HARDWICKS2	601 Squirrel	7	441				
		15	875				
	Total	29	2175				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	4	0.14	351	16.14%			
Trees	7	0.24	826	37.98%			
Weather	3	0.10	123	5.66%			
Animals	15	0.52	875	40.23%			
	29	1.00	2175	100.00%			
Hardwicks Creek 1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	6.01	45.45	2.71	19.84	12.22	17.246	54.39
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.16	0.46	0.02	0.23	0.1	0.19	0.73

SECTION 5: CIRCUIT REPORTING							
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)							
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)							
1.	Substation Name and number - Hardwicks Creek E66						
2.	Substation Location (County-Road-Town) Powell-Happy Top-Clay City						
3.	Circuit name and number - Happy Top - CT 3						
4.	Circuit Location (town-Road) Clay City-Happy Top Road						
5.	Total circuit length (miles) - 8.61						
6.	Customer count for this circuit - 132						
7.	Date of last circuit trim (VM) - 2011						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause						
	(See attached document)						
9.	Circuit 5 year average (SAIDI) 49.02						
10.	Reporting year (SAIDI) 2015 - 106.63						
11.	Circuit 5 year average (SAIFI) 0.68						
12.	Reporting year (SAIFI) 2015 - 1.06						
13.	Corrective action plan (See attached document)						
SECTION 7: UTILITY COMMENTS							
	Corrective actions are not required						
Feeder	Cause	CustomersAffected	CustomerMinutes				
HARDWICKS3	110 Maintenance	13	468				
HARDWICKS3	110 Maintenance	2	46				

Hardwicks Creek Substation - Circuit 3

		15	514				
HARDWICKS3	300 Material or Equipment Fault/Failure	55	7095				
HARDWICKS3	400 Decay/Age of Material/Equipment	2	254				
		57	7349				
HARDWICKS3	430 Tree failure without ice/snow	54	4968				
HARDWICKS3	430 Tree failure without ice/snow	2	278				
HARDWICKS3	430 Tree failure without ice/snow	2	324				
		58	5570				
HARDWICKS3	500 Lightning	1	714				
HARDWICKS3	500 Lightning	1	426				
		2	1140				
HARDWICKS3	601 Squirrel	9	234				
	Total	130	14807				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	15	0.11	514	3.47%			
Maintanance	57	0.40	7349	49.63%			
Trees	58	0.41	5570	37.62%			
Weather	2	0.01	1140	7.70%			
Animals	9	0.06	234	1.58%			
	141	1.00	14807	100.00%			
Hardwicks Creek 1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	30.11	148.01	28.08	21.63	17.27	49.02	106.63
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.29	2.31	0.46	0.28	0.06	0.68	1.06



Hinkston Substation - Circuit 1

	Total	550	25447				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Power Supply	548	1.00	25208	99.06%			
Trees	2	0.00	239	0.94%			
	550	1.00	25447	100.00%			
Hinkston	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	0	5.78	0	0	0	1.156	9.05
SAIFI	0	0.04	0	0	0	0.01	0.08

SECTION 5: CIRCUIT REPORTING							
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)							
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)							
1.	Substation Name and number - Hope E2						
2.	Substation Location (County-Road-Town) Montgomery- Spencer Pike - Mt Sterling						
3.	Circuit name and number - Stulltown Road Ct. 1						
4.	Circuit Location (town-Road) Mt Sterling-Stulltown Road						
5.	Total circuit length (miles) - 14.35						
6.	Customer count for this circuit -137						
7.	Date of last circuit trim (VM) - 2008-2009						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause						
	(See attached document)						
9.	Circuit 5 year average (SAIDI) 42.14						
10.	Reporting year (SAIDI) 2015 - 109.79						
11.	Circuit 5 year average (SAIFI) 0.35						
12.	Reporting year (SAIFI) 2015 - 1.12						
13.	Corrective action plan (See attached document)						
SECTION 7: UTILITY COMMENTS							
		Corrective actions are not required					
Feeder	Cause	CustomersAffected	CustomerMinutes				
HOPE1	300 Material or Equipment Fault/Failure	1	133				
HOPE1	300 Material or Equipment Fault/Failure	4	196				



Hope Substation - Circuit 1

		5	329					
HOPE1	420 Tree Growth	10	1020					
HOPE1	430 Tree failure without ice/snow	60	72031					
HOPE1	430 Tree failure without ice/snow	3	8763					
HOPE1	430 Tree failure without ice/snow	4	10888					
HOPE1	430 Tree failure without ice/snow	1	1747					
HOPE1	430 Tree failure without ice/snow	14	1848					
HOPE1	440 Trees With Ice/Snow	10	1430					
		92	96707					
HOPE1	470 Borrower crew cuts tree	24	936					
HOPE1	500 Lightning	14	2282					
HOPE1	500 Lightning	1	78					
HOPE1	500 Lightning	15	945					
HOPE1	500 Lightning	15	975					
HOPE1	500 Lightning	14	2422					
HOPE1	500 Lightning	1	71					
HOPE1	500 Lightning	1	115					
		61	6888					
HOPE1	999 Cause Unknown	10	310					
HOPE1	999 Cause Unknown	24	2520					
HOPE1	999 Cause Unknown	8	392					
		42	3222					
	Total	234	109102					
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI				
Maintanance	5	0.02	329	0.30%				
Tree growth	10	0.04	1020	0.93%				
Trees out of ROW	92	0.39	96707	88.64%				
Public	24	0.10	936	0.86%				
Weather	61	0.26	6888	6.31%				
Unknown	42	0.18	3222	2.95%				
	234	1.00	109102	100.00%				
Hinkston	2010	2011	2012	2013	2014	5 Yr Ave	2015	

Hope Substation - Circuit 1

SAIDI	4.14	54.14	26.2	85.29	40.91	42.14	109.79	
SAIFI	0.06	0.62	0.21	0.57	0.3	0.35	1.12	



Hope Substation - Circuit 2

HOPE2	110 Maintenance	1	19				
		5	511				
HOPE2	300 Material or Equipment Fault/Failure	2	92				
HOPE2	300 Material or Equipment Fault/Failure	2	98				
HOPE2	400 Decay/Age of Material/Equipment	2	64				
HOPE2	400 Decay/Age of Material/Equipment	2	176				
HOPE2	490 Maintenance, Other	1	77				
		9	507				
HOPE2	340 Overload	4	2297				
HOPE2	430 Tree failure without ice/snow	1	193				
HOPE2	430 Tree failure without ice/snow	47	6815				
HOPE2	430 Tree failure without ice/snow	32	4992				
	430 Tree failure without ice/snow	2	118				
		82	12118				
HOPE2	500 Lightning	1	68				
HOPE2	500 Lightning	5	14900				
HOPE2	500 Lightning	1	620				
HOPE2	500 Lightning	2	3700				
HOPE2	500 Lightning	1	125				
HOPE2	500 Lightning	4	808				
		14	20221				
HOPE2	999 Cause Unknown	7	525				
	Total	121	36179				
	CustomersAffected	CustomerMinutes	% of SAIDI				
Maintanance	9	507	1.40%				
Overload	4	2297	6.35%				
Trees out of ROW	82	12118	33.49%				
Planned	5	511	1.41%				
Weather	14	20221	55.89%				
Unknown	7	525	1.45%				
	121	36179	100.00%				
Hinkston	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	25.85	64.56	14.27	53.25	55.78	42.74	57.73

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Hope E2							
2.	Substation Location (County-Road-Town) Montgomery- Spencer Pike - Mt Sterling							
3.	Circuit name and number - Stultown Road Ct. 3							
4.	Circuit Location (town-Road) Mt Sterling- Spencer Pike							
5.	Total circuit length (miles) - 95.40							
6.	Customer count for this circuit -922							
7.	Date of last circuit trim (VM) - 2008-2009							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause							
	(See attached document)							
9.	Circuit 5 year average (SAIDI) 111.32							
10.	Reporting year (SAIDI) 2015 - 217.46							
11.	Circuit 5 year average (SAIFI) 1.10							
12.	Reporting year (SAIFI) 2015 - 3.21							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
	Corrective action not required							
Feeder	Cause	CustomersAffected	CustomerMinutes					
HOPE3	100 Construction	2	114					

Hope Substation - Circuit 3

HOPE3	100 Construction	3	165				
HOPE3	100 Construction	1	53				
HOPE3	100 Construction	2	112				
HOPE3	100 Construction	2	94				
HOPE3	100 Construction	2	350				
HOPE3	100 Construction	18	5922				
HOPE3	100 Construction	4	1024				
HOPE3	100 Construction	2	110				
HOPE3	100 Construction	1	22				
HOPE3	100 Construction	1	94				
HOPE3	110 Maintenance	7	147				
		45	8207				
HOPE3	300 Material or Equipment Fault/Failure	1	88				
HOPE3	300 Material or Equipment Fault/Failure	4	604				
HOPE3	300 Material or Equipment Fault/Failure	1	84				
HOPE3	300 Material or Equipment Fault/Failure	81	7371				
HOPE3	300 Material or Equipment Fault/Failure	11	1419				
HOPE3	300 Material or Equipment Fault/Failure	1	119				
HOPE3	300 Material or Equipment Fault/Failure	3	198				
HOPE3	300 Material or Equipment Fault/Failure	1	200				
HOPE3	300 Material or Equipment Fault/Failure	1	100				
HOPE3	300 Material or Equipment Fault/Failure	1	126				
HOPE3	300 Material or Equipment Fault/Failure	2	208				
HOPE3	300 Material or Equipment Fault/Failure	3	309				
HOPE3	400 Decay/Age of Material/Equipment	81	9477				
HOPE3	400 Decay/Age of Material/Equipment	69	4692				
		260	24995				
HOPE3	430 Tree failure without ice/snow	50	7900				
HOPE3	430 Tree failure without ice/snow	4	396				
HOPE3	430 Tree failure without ice/snow	2	150				
HOPE3	430 Tree failure without ice/snow	922	24894				
HOPE3	430 Tree failure without ice/snow	31	3689				
HOPE3	430 Tree failure without ice/snow	31	3286				
HOPE3	430 Tree failure without ice/snow	1	82				
HOPE3	430 Tree failure without ice/snow	916	69616				
HOPE3	430 Tree failure without ice/snow	11	2662				
HOPE3	430 Tree failure without ice/snow	1	215				
HOPE3	430 Tree failure without ice/snow	3	7992				
HOPE3	430 Tree failure without ice/snow	11	15752				
HOPE3	430 Tree failure without ice/snow	23	9338				
HOPE3	430 Tree failure without ice/snow	6	10008				
HOPE3	430 Tree failure without ice/snow	31	45415				

Hope Substation - Circuit 3

HOPE3	430 Tree failure without ice/snow	2	2528					
HOPE3	430 Tree failure without ice/snow	5	1600					
HOPE3	430 Tree failure without ice/snow	1	91					
HOPE3	430 Tree failure without ice/snow	4	2084					
HOPE3	430 Tree failure without ice/snow	25	2075					
HOPE3	430 Tree failure without ice/snow	5	495					
HOPE3	430 Tree failure without ice/snow	433	13423					
HOPE3	430 Tree failure without ice/snow	5	405					
HOPE3	430 Tree failure without ice/snow	31	8897					
HOPE3	440 Trees With Ice/Snow	3	330					
		2557	233323					
HOPE3	500 Lightning	1	48					
HOPE3	500 Lightning	2	168					
HOPE3	500 Lightning	1	19					
HOPE3	500 Lightning	3	216					
HOPE3	500 Lightning	1	33					
HOPE3	500 Lightning	2	154					
HOPE3	500 Lightning	2	48					
HOPE3	500 Lightning	2	148					
HOPE3	500 Lightning	4	252					
HOPE3	500 Lightning	4	232					
HOPE3	500 Lightning	5	130					
HOPE3	500 Lightning	1	28					
HOPE3	500 Lightning	1	98					
HOPE3	500 Lightning	1	122					
HOPE3	500 Lightning	5	395					
HOPE3	500 Lightning	12	3516					
HOPE3	500 Lightning	11	1837					
HOPE3	500 Lightning	1	3268					
HOPE3	500 Lightning	1	1123					
HOPE3	500 Lightning	5	1080					
HOPE3	500 Lightning	4	1260					
HOPE3	500 Lightning	1	226					
HOPE3	500 Lightning	12	4452					
HOPE3	500 Lightning	2	712					
HOPE3	500 Lightning	5	3420					
HOPE3	500 Lightning	11	913					
HOPE3	500 Lightning	1	201					
HOPE3	500 Lightning	1	191					
HOPE3	500 Lightning	4	392					
HOPE3	500 Lightning	1	495					
HOPE3	500 Lightning	1	156					
HOPE3	500 Lightning	4	648					

Hope Substation - Circuit 3

HOPE3	500 Lightning	1	103					
HOPE3	500 Lightning	1	483					
HOPE3	500 Lightning	1	174					
HOPE3	500 Lightning	1	117					
HOPE3	500 Lightning	1	82					
HOPE3	500 Lightning	1	63					
HOPE3	500 Lightning	1	53					
HOPE3	590 Weather, Other	4	296					
		123	27352					
HOPE3	600 Small Animal/Bird	2	102					
HOPE3	600 Small Animal/Bird	1	12					
HOPE3	600 Small Animal/Bird	1	24					
HOPE3	601 Squirrel	3	204					
HOPE3	601 Squirrel	3	135					
		10	477					
HOPE3	710 Motor Vehicle	1	113					
HOPE3	999 Cause Unknown	66	8464					
HOPE3	999 Cause Unknown	2	184					
HOPE3	999 Cause Unknown	6	648					
		74	9296					
	Total	3070	303763					
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI				
Maintanance	260	0.08	24995	8.23%				
Public	1		113	0.04%				
Animals	10	0.00	477	0.16%				
Trees out of ROW	2557	0.83	233323	76.81%				
Planned	45	0.01	8207	2.70%				
Weather	123	0.04	27352	9.00%				
Unknown	74	0.02	9296	3.06%				
	3070	1.00	303763	100.00%				
Hinkston	2010	2011	2012	2013	2014	5 Yr Ave	2015	



Hope Substation - Circuit 3

SAIDI	235.3	99.52	53.17	63.04	105.58	111.322	217.46	
	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIFI	1.33	1.56	0.55	1	1.07	1.1	3.21	



Hunt Substation - Circuit 1

HUNT1	100 Construction	1	337				
HUNT1	100 Construction	3	225				
HUNT1	100 Construction	3	171				
HUNT1	100 Construction	1	203				
HUNT1	100 Construction	1	392				
HUNT1	100 Construction	1	279				
HUNT1	100 Construction	2	266				
HUNT1	110 Maintenance	2	204				
HUNT1	110 Maintenance	1	213				
HUNT1	110 Maintenance	2	44				
		57	12123				
HUNT1	300 Material or Equipment Fault/Failure	1	72				
HUNT1	300 Material or Equipment Fault/Failure	4	380				
HUNT1	300 Material or Equipment Fault/Failure	3	375				
HUNT1	300 Material or Equipment Fault/Failure	3	435				
		11	1262				
HUNT1	340 Overload	3	387				
HUNT1	420 Tree Growth	4	316				
HUNT1	430 Tree failure from overhang or dead tree without ice/snow	103	9579				
HUNT1	430 Tree failure from overhang or dead tree without ice/snow	2	420				
		105	9999				
HUNT1	500 Lightning	6	5712				
HUNT1	500 Lightning	25	6788				
HUNT1	500 Lightning	1	44				
		32	12544				
HUNT1	600 Small Animal/Bird	2	148				
HUNT1	601 Squirrel	3	276				
		5	424				
HUNT1	999 Cause Unknown	1	78				
HUNT1	999 Cause Unknown	3	201				
HUNT1	999 Cause Unknown	1	73				
HUNT1	999 Cause Unknown	17	935				
		22	1287				
	Total	608	69707				
25525	CustomersAffected	CustomerMinutes	% of SAIDI				
Power supply	369	31365	45.00%				
Planned	57	12123	17.39%				
Maintanance issues	11	1262	1.81%				

Hunt Substation - Circuit 1

Tree growth		4	316	0.45%				
Overload		3	387	0.56%				
Unknown		22	1287	1.85%				
Trees		105	9999	14.34%				
Weather		32	12544	18.00%				
Animals		5	424	0.61%				
		608	69707	100.00%				
Hunt 4	2010		2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	90.23		46.43	46.83	88.11	66.124	66.12	70.00



Hunt Substation - Circuit 3

HUNT3	300 Material or Equipment Fault/Failure	40	8880					
HUNT3	300 Material or Equipment Fault/Failure	1	101					
HUNT3	300 Material or Equipment Fault/Failure	7	695					
HUNT3	300 Material or Equipment Fault/Failure	2	1024					
HUNT3	300 Material or Equipment Fault/Failure	2	142					
HUNT3	300 Material or Equipment Fault/Failure	499	39488					
HUNT3	410 Corrosion/Material/Equipment	491	112444					
		1043	162911					
HUNT3	340 Overload	491	68390					
HUNT3	340 Overload	2	218					
		493	68608					
HUNT3	420 Tree Growth	4	204					
HUNT3	420 Tree Growth	5	455					
		9	659					
HUNT3	430 Tree failure without ice/snow	7	1603					
HUNT3	430 Tree failure without ice/snow	24	10128					
HUNT3	430 Tree failure without ice/snow	1	171					
HUNT3	430 Tree failure without ice/snow	43	9245					
HUNT3	430 Tree failure without ice/snow	40	6743					
		115	27890					
HUNT3	500 Lightning	2	310					
HUNT3	500 Lightning	6	180					
HUNT3	500 Lightning	2	70					
HUNT3	500 Lightning	2	70					
HUNT3	500 Lightning	5	285					
HUNT3	500 Lightning	7	658					
HUNT3	500 Lightning	7	196					
HUNT3	500 Lightning	2	366					
HUNT3	500 Lightning	1	85					
HUNT3	500 Lightning	6	6576					
HUNT3	500 Lightning	8	8000					
HUNT3	500 Lightning	1	437					
HUNT3	500 Lightning	6	1548					
HUNT3	500 Lightning	6	1338					
HUNT3	500 Lightning	2	982					
HUNT3	500 Lightning	1	49					
HUNT3	500 Lightning	6	336					
HUNT3	500 Lightning	2	648					
HUNT3	500 Lightning	10	390					
HUNT3	500 Lightning	6	276					
HUNT3	500 Lightning	1	32					
HUNT3	500 Lightning	5	380					
		94	23212					
HUNT3	600 Small Animal/Bird	2	120					
HUNT3	601 Squirrel	2	184					
HUNT3	601 Squirrel	2	156					

Hunt Substation - Circuit 3

		6	460				
HUNT3	790 Public, Other	5	390				
HUNT3	999 Cause Unknown	2	140				
HUNT3	999 Cause Unknown	1	66				
HUNT3	999 Cause Unknown	2	142				
HUNT3	999 Cause Unknown	3	457				
HUNT3	999 Cause Unknown	57	2736				
	Total	2483	342912				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Public	5	0.00	390	0.11%			
Power Supply	652	0.26	55420	16.16%			
Overload	493	0.20	68608	20.01%			
Tree Growth	9	0.00	659	0.19%			
Planned	9	0.00	626	0.18%			
Maintanance issues	1043	0.42	162911	47.51%			
Unknown	57	0.02	2736	0.80%			
Trees	115	0.05	27890	8.13%			
Weather	94	0.04	23212	6.77%			
Animals	6	0.00	460	0.13%			
	2483	1.00	342912	100.00%			
Hunt 4	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	56.94	335.48	124.7	216.27	34.42	153.56	419.66
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.62	3.57	1.19	2.88	0.27	1.71	2.8





Jeffersonville Substation - Circuit 1

JVILLE1	100 Construction	2	144				
JVILLE1	100 Construction	4	92				
JVILLE1	100 Construction	1	35				
JVILLE1	100 Construction	3	45				
JVILLE1	100 Construction	3	318				
JVILLE1	100 Construction	5	440				
JVILLE1	100 Construction	2	102				
JVILLE1	100 Construction	2	460				
JVILLE1	110 Maintenance	1	47				
		33	2783				
JVILLE1	300 Material or Equipment Fault/Failure	1	366				
JVILLE1	300 Material or Equipment Fault/Failure	7	1085				
JVILLE1	300 Material or Equipment Fault/Failure	2	264				
JVILLE1	300 Material or Equipment Fault/Failure	536	19832				
JVILLE1	300 Material or Equipment Fault/Failure	35	2450				
		581	23997				
JVILLE1	340 Overload	59	9676				
JVILLE1	420 Tree Growth	3	186				
JVILLE1	420 Tree Growth	29	1334				
JVILLE1	420 Tree Growth	3	219				
		35	1739				
JVILLE1	430 Tree failure without ice/snow	81	12474				
JVILLE1	430 Tree failure without ice/snow	536	130011				
JVILLE1	430 Tree failure without ice/snow	34	7990				
JVILLE1	430 Tree failure without ice/snow	41	3437				
JVILLE1	430 Tree failure without ice/snow	1	426				
JVILLE1	430 Tree failure without ice/snow	6	1194				
JVILLE1	430 Tree failure without ice/snow	6	792				
JVILLE1	430 Tree failure without ice/snow	35	6501				
JVILLE1	430 Tree failure without ice/snow	59	12390				
JVILLE1	430 Tree failure without ice/snow	50	72100				
JVILLE1	430 Tree failure without ice/snow	7	2149				
JVILLE1	430 Tree failure without ice/snow	33	34254				
JVILLE1	430 Tree failure without ice/snow	59	6962				
JVILLE1	430 Tree failure without ice/snow	6	858				
JVILLE1	440 Trees With Ice/Snow	7	546				
		961	292084				
JVILLE1	500 Lightning	3	219				
JVILLE1	500 Lightning	3	186				
JVILLE1	500 Lightning	3	93				

Jeffersonville Substation - Circuit 1

JVILLE1	500 Lightning	3	768				
JVILLE1	500 Lightning	5	475				
		17	1741				
JVILLE1	600 Small Animal/Bird	1	72				
JVILLE1	601 Squirrel	1	155				
JVILLE1	601 Squirrel	1	40				
JVILLE1	601 Squirrel	2	84				
JVILLE1	601 Squirrel	1	46				
		6	397				
JVILLE1	710 Motor Vehicle	4	284				
JVILLE1	710 Motor Vehicle	5	2115				
		9	2399				
JVILLE1	760 Switching error	540	16200				
JVILLE1	999 Cause Unknown	1	64				
	Total	2242	351080				
	Customers Affected	SAIFI	CustomerMinutes	% of SAIDI			
Switching error	540	0.24	16200	4.61%			
Public	9	0.00	2399	0.68%			
Planned	33	0.01	2783	0.79%			
Maintanance issues	581	0.26	23997	6.84%			
Overload	59	0.03	9676	2.76%			
Unknown	1	0.00	64	0.02%			
Tree Growth	35	0.02	1739	0.50%			
Trees	961	0.43	292084	83.20%			
Weather	17	0.01	1741	0.50%			
Animals	6	0.00	397	0.11%			
	2242	1.00	351080	100.00%			
Jville 1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	39.75	42.71	126.4	113.59	94.62	83.41	250.72
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.31	0.48	1.5	1.97	1.32	1.12	2.28

SECTION 5: CIRCUIT REPORTING									
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)									
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)									
1.	Substation Name and number - Jeffersonville E87								
2.	Substation Location (County-Road-Town) Montgomery-Hwy1050-Jeffersonville								
3.	Circuit name and number - Hwy 1050 - F2								
4.	Circuit Location (town-Road) Jeffersonville-Hwy 1050								
5.	Total circuit length (miles) - 48.85								
6.	Customer count for this circuit - 560								
7.	Date of last circuit trim (VM) - Pre - 2009								
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)								
9.	Circuit 5 year average (SAIDI) 122.16								
10.	Reporting year (SAIDI) 2015 - 153.44								
11.	Circuit 5 year average (SAIFI) 1.29								
12.	Reporting year (SAIFI) 2015 - 1.31								
13.	Corrective action plan (See attached document)								
SECTION 7: UTILITY COMMENTS									
	Corrective actions: 1. ROW is being cleared on the entire station in 2016								
Feeder	Cause	CustomersAffected	CustomerMinutes						
JVILLE2	100 Construction	3	231						
JVILLE2	100 Construction	1	182						
JVILLE2	100 Construction	17	3451						
JVILLE2	100 Construction	17	3842						
JVILLE2	100 Construction	3	1197						
JVILLE2	100 Construction	3	204						
JVILLE2	100 Construction	3	225						
JVILLE2	100 Construction	3	228						
JVILLE2	100 Construction	3	165						
JVILLE2	110 Maintenance	4	212						
JVILLE2	110 Maintenance	3	366						

Jeffersonville Substation - Circuit 2

		60	10303				
JVILLE2	300 Material or Equipment Fault/Failure	6	318				
JVILLE2	300 Material or Equipment Fault/Failure	86	5246				
JVILLE2	300 Material or Equipment Fault/Failure	1	48				
JVILLE2	400 Decay/Age of Material/Equipment	256	45977				
JVILLE2	410 Corrosion/Abrasion of Material/Equipment	1	13				
JVILLE2	490 Maintenance, Other	1	203				
		351	51805				
JVILLE2	420 Tree Growth	1	53				
JVILLE2	420 Tree Growth	7	686				
		8	739				
JVILLE2	430 Tree failure without ice/snow	44	2640				
JVILLE2	430 Tree failure without ice/snow	1	146				
JVILLE2	430 Tree failure without ice/snow	83	581				
JVILLE2	430 Tree failure without ice/snow	17	3434				
JVILLE2	430 Tree failure without ice/snow	64	32832				
JVILLE2	430 Tree failure without ice/snow	3	2463				
JVILLE2	430 Tree failure without ice/snow	3	9411				
JVILLE2	430 Tree failure without ice/snow	3	8325				
JVILLE2	430 Tree failure without ice/snow	1	782				
JVILLE2	430 Tree failure without ice/snow	22	2618				
JVILLE2	430 Tree failure without ice/snow	3	258				
		244	63490				
JVILLE2	500 Lightning	3	96				
JVILLE2	500 Lightning	1	81				
JVILLE2	500 Lightning	114	11040				
JVILLE2	500 Lightning	11	7799				
JVILLE2	500 Lightning	2	4980				
JVILLE2	500 Lightning	9	792				
JVILLE2	500 Lightning	1	117				
		141	24905				
JVILLE2	601 Squirrel	3	153				
JVILLE2	690 Animal, Other	1	145				
		4	298				
JVILLE2	700 Customer-Caused	2	466				
JVILLE2	710 Motor Vehicle	1	61				
JVILLE2	710 Motor Vehicle	10	440				
		13	967				
	<b>Total</b>	<b>821</b>	<b>152507</b>				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Tree Growth	8	0.01	739	0.48%			

Jeffersonville Substation - Circuit 2

Public	13	0.02	967	0.63%			
Planned	60	0.07	10303	6.76%			
Maintanance issues	351	0.43	51805	33.97%			
Trees	244	0.30	63490	41.63%			
Weather	141	0.17	24905	16.33%			
Animals	4	0.00	298	0.20%			
	821	1.00	152507	100.00%			
Jville 2	2010	2011	2012	2013	2014	5 Yr Ave	2015
						122.16	153.44
SAIDI	159.49	94.57	55.04	48.57	253.14		
	2010	2011	2012	2013	2014	5 Yr Ave	2015
						1.29	1.31
SAIFI	1.94	0.76	1.27	0.42	2.05		

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Mariba E85							
2.	Substation Location (County-Road-Town) Menifee - Hwy 460 - Frenchburg							
3.	Circuit name and number - Denniston Ct. 2							
4.	Circuit Location (town-Road) Frenchburg - Hwy 460							
5.	Total circuit length (miles) - 88.16							
6.	Customer count for this circuit - 927							
7.	Date of last circuit trim (VM) - 2013							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)							
9.	Circuit 5 year average (SAIDI) 126.35							
10.	Reporting year (SAIDI) 2015 - 184.26							
11.	Circuit 5 year average (SAIFI) 1.66							
12.	Reporting year (SAIFI) 2015 - 2.78							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
		No corrective actions required						
Feeder	Cause	CustomersAffected	CustomerMinutes					
MARIBA2	000 Power Supply	927	37925					
MARIBA2	100 Construction	17	1377					
MARIBA2	100 Construction	2	132					
MARIBA2	100 Construction	3	384					

Mariba Substation - Circuit 2

MARIBA2	100 Construction	7	476					
MARIBA2	100 Construction	5	490					
MARIBA2	100 Construction	2	66					
MARIBA2	100 Construction	35	2765					
MARIBA2	100 Construction	35	2100					
MARIBA2	100 Construction	2	26					
MARIBA2	100 Construction	1	179					
MARIBA2	100 Construction	4	712					
MILLER HUNT2	100 Construction	1	197					
MILLER HUNT2	100 Construction	3	357					
MILLER HUNT2	100 Construction	1	217					
MILLER HUNT2	100 Construction	3	900					
MILLER HUNT2	100 Construction	3	870					
MILLER HUNT2	100 Construction	2	198					
MARIBA2	110 Maintenance	4	336					
		130	11782					
MARIBA2	300 Material or Equipment Fault/Failure	5	1325					
MARIBA2	300 Material or Equipment Fault/Failure	1	40					
MARIBA2	300 Material or Equipment Fault/Failure	8	5455					
MARIBA2	300 Material or Equipment Fault/Failure	22	1318					
MARIBA2	400 Decay/Age of Material/Equipment	1	265					
MARIBA2	400 Decay/Age of Material/Equipment	11	220					
MARIBA2	400 Decay/Age of Material/Equipment	1	151					
MARIBA2	490 Maintenance, Other	1	65					
		50	8839					
MARIBA2	430 Tree failure without ice/snow	43	7138					
MARIBA2	430 Tree failure without ice/snow	24	1872					
MARIBA2	430 Tree failure without ice/snow	2	1206					
MARIBA2	430 Tree failure without ice/snow	10	2480					
MARIBA2	430 Tree failure without ice/snow	92	52830					
MARIBA2	430 Tree failure without ice/snow	42	41202					
MARIBA2	430 Tree failure without ice/snow	1	601					
MARIBA2	430 Tree failure without ice/snow	7	1435					
MARIBA2	430 Tree failure without ice/snow	1	440					
MARIBA2	430 Tree failure without ice/snow	3	1827					
MARIBA2	430 Tree failure without ice/snow	4	1008					
MARIBA2	430 Tree failure without ice/snow	1	202					
MARIBA2	430 Tree failure without ice/snow	11	1408					
MARIBA2	430 Tree failure without ice/snow	455	13650					
MARIBA2	430 Tree failure without ice/snow	79	4740					
		775	132039					
MARIBA2	500 Lightning	701	34349					
MARIBA2	500 Lightning	8	304					
MARIBA2	500 Lightning	1	17					
MARIBA2	500 Lightning	1	28					
MARIBA2	500 Lightning	2	172					
MARIBA2	500 Lightning	5	425					





Mariba Substation - Circuit 2

Weather	1723	0.47	111116	36.27%				
Animals	21	0.01	3011	0.98%				
	3646	1.00	306335	100.00%				
Miller Hunt 2	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIDI	101.98	98.36	292.32	97.46	41.62	126.35	184.26	
	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIFI	1.52	1.2	3.63	1.4	0.53	1.66	2.78	



Miller Hunt Substation - Circuit 3

MILLER HUNT3	100 Construction	2	436				
MILLER HUNT3	100 Construction	5	580				
MILLER HUNT3	110 Maintenance	2	392				
		9	1408				
	Total	217	30763				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	9	0.04	1408	4.58%			
Maintanance issues	104	0.48	16583	53.91%			
Weather	104	0.48	12772	41.52%			
	217	1.00	30763	100.00%			
Miller Hunt 3	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	33.43	240.11	19.98	6.55	169.5	93.91	172.92
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	1.04	2.01	0.17	0.12	1.26	0.92	1.08

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Reid Village Miller Hunt N64							
2.	Substation Location (County-Road-Town) Montgomery County - Hwy 60 - Reid Village							
3.	Circuit name and number - Reid Village - Ct 2							
4.	Circuit Location (town-Road) Reid Village - Hwy 60							
5.	Total circuit length (miles) - 14.14							
6.	Customer count for this circuit - 395							
7.	Date of last circuit trim (VM) - 2014							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause							
	(See attached document)							
9.	Circuit 5 year average (SAIDI) 39.81							
10.	Reporting year (SAIDI) 2015 - 59.17							
11.	Circuit 5 year average (SAIFI) N/A							
12.	Reporting year (SAIFI) 2015 - N/A							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
		No corrective actions required						
Feeder	Cause	CustomersAffected	CustomerMinutes					
RDVILLAGE2	100 Construction	2	42					
RDVILLAGE2	110 Maintenance	3	174					
RDVILLAGE2	110 Maintenance	3	387					
RDVILLAGE2	110 Maintenance	2	32					

Reid Village Substation - Circuit 2

		10	635				
RDVILLAGE2	300 Material or Equipment Fault/Failure	80	1360				
RDVILLAGE2	410 Corrosion of Material/Equipment	32	896				
RDVILLAGE2	490 Maintenance, Other	2	130				
		114	2386				
RDVILLAGE2	420 Tree Growth	80	4800				
RDVILLAGE2	420 Tree Growth	80	13940				
		160	18740				
RDVILLAGE2	430 Tree failure without ice/snow	49	15186				
RDVILLAGE2	500 Lightning	8	2384				
RDVILLAGE2	500 Lightning	15	2115				
		23	4499				
RDVILLAGE2	600 Small Animal/Bird	4	376				
RDVILLAGE2	600 Small Animal/Bird	4	228				
RDVILLAGE2	600 Small Animal/Bird	4	188				
RDVILLAGE2	600 Small Animal/Bird	3	192				
RDVILLAGE2	600 Small Animal/Bird	3	222				
RDVILLAGE2	600 Small Animal/Bird	7	455				
RDVILLAGE2	600 Small Animal/Bird	9	387				
		34	2048				
	<b>Total</b>	<b>390</b>	<b>43494</b>				
	<b>CustomersAffected</b>	<b>CustomerMinutes</b>	<b>% of SAIDI</b>				
Tree Growth	160	18740	43.09%				
Tree out of ROW	49	15186	34.92%				
Animal	34	2048	4.71%				
Planned	10	635	1.46%				
Maintanance issues	114	2386	5.49%				
Weather	23	4499	10.34%				
	390	43494	100.00%				
RDVILLAGE2	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	63.88	22.2	26.99	69.69	16.31	39.81	59.17

<b>SECTION 5: CIRCUIT REPORTING</b>								
<b>(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)</b>								
<b>(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)</b>								
1.	Substation Name and number - Sideview N2							
2.	Substation Location (County-Road-Town) Clark-Oldson Road-North Middletown							
3.	Circuit name and number - Childs Highway,CT. 2							
4.	Circuit Location (town-Road) North Middletown, Childs Hwy/Arrons Run Road							
5.	Total circuit length (miles) - 45.88							
6.	Customer count for this circuit - 349							
7.	Date of last circuit trim (VM) - 2013							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause							
	(See attached document)							
9.	Circuit 5 year average (SAIDI) 142.37							
10.	Reporting year (SAIDI) 2015 - 239.58							
11.	Circuit 5 year average (SAIFI) 1.41							
12.	Reporting year (SAIFI) 2015 - 1.48							
13.	Corrective action plan (See attached document)							
<b>SECTION 7: UTILITY COMMENTS</b>								
	No corrective action required							
Feeder	Cause	CustomersAffected	CustomerMinutes					
SIDEVIEW2	300 Material or Equipment Fault/Failure	1	113					
SIDEVIEW2	300 Material or Equipment Fault/Failure	6	414					
SIDEVIEW2	400 Decay/Age of Material/Equipment	152	43348					
SIDEVIEW2	400 Decay/Age of Material/Equipment	1	107					

Sideview Substation - Circuit 2

		160	43982				
SIDEVIEW2	340 Overload	3	618				
SIDEVIEW2	430 Tree failure without ice/snow	103	32392				
SIDEVIEW2	500 Lightning	1	36				
SIDEVIEW2	500 Lightning	2	160				
SIDEVIEW2	500 Lightning	1	82				
SIDEVIEW2	500 Lightning	3	420				
SIDEVIEW2	500 Lightning	4	416				
SIDEVIEW2	500 Lightning	2	204				
SIDEVIEW2	500 Lightning	1	45				
SIDEVIEW2	500 Lightning	2	126				
SIDEVIEW2	500 Lightning	2	78				
SIDEVIEW2	500 Lightning	1	166				
SIDEVIEW2	500 Lightning	3	2481				
SIDEVIEW2	500 Lightning	2	220				
SIDEVIEW2	500 Lightning	3	642				
SIDEVIEW2	500 Lightning	2	1046				
SIDEVIEW2	500 Lightning	2	302				
SIDEVIEW2	500 Lightning	1	140				
SIDEVIEW2	500 Lightning	1	53				
		33	6617				
SIDEVIEW2	612 Animal/Large Bird	2	168				
SIDEVIEW2	710 Motor Vehicle	348	40020				
SIDEVIEW2	740 Public Cuts Tree	18	3240				
		366	43260				
SIDEVIEW2	999 Cause Unknown	2	134				
	Total	669	127171				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Overload	3	0.00	618	0.49%			
Public	366	0.55	43260	34.02%			
Maintanance issues	160	0.24	43982	34.58%			
Unknown	2	0.00	134	0.11%			

Sideview Substation - Circuit 2

Trees	103	0.15	32392	25.47%			
Weather	33	0.05	6617	5.20%			
Animals	2	0.00	168	0.13%			
	669	1.00	127171	100.00%			
SIDEVIEW2	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	189.28	115.28	237.61	98.74	70.92	142.37	239.58
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	2.46	1.9	1.14	1.03	0.52	1.41	1.48



SECTION 5: CIRCUIT REPORTING							
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)							
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)							
1.	Substation Name and number - Sideview N2						
2.	Substation Location (County-Road-Town) Clark-Oldson Road-North Middletown						
3.	Circuit name and number - Donaldson Road, CT. 3						
4.	Circuit Location (town-Road) North Middletown, Donaldson Road						
5.	Total circuit length (miles) - 39.30						
6.	Customer count for this circuit - 399						
7.	Date of last circuit trim (VM) - 2013						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)						
9.	Circuit 5 year average (SAIDI) 64.88						
10.	Reporting year (SAIDI) 2015 - 130.87						
11.	Circuit 5 year average (SAIFI) 0.64						
12.	Reporting year (SAIFI) 2015 - 1.11						
13.	Corrective action plan (See attached document)						
SECTION 7: UTILITY COMMENTS							
		No corrective actions required					
Feeder	Cause	CustomersAffected	CustomerMinutes				
SIDEVIEW3	100 Construction	1	90				
SIDEVIEW3	100 Construction	3	144				
SIDEVIEW3	100 Construction	2	390				
SIDEVIEW3	110 Maintenance	3	360				
		9	984				
SIDEVIEW3	300 Material or Equipment Fault/Failure	2	158				
SIDEVIEW3	300 Material or Equipment Fault/Failure	1	72				

Sideview Substation - Circuit 3

SIDEVIEW3	300 Material or Equipment Fault/Failure	2	616				
		5	846				
SIDEVIEW3	420 Tree Growth	1	83				
SIDEVIEW3	470 Borrower crew cuts tree	17	1734				
SIDEVIEW3	500 Lightning	1	99				
SIDEVIEW3	500 Lightning	3	378				
SIDEVIEW3	500 Lightning	1	134				
SIDEVIEW3	500 Lightning	1	505				
SIDEVIEW3	500 Lightning	1	184				
SIDEVIEW3	500 Lightning	3	1017				
		10	2317				
SIDEVIEW3	600 Small Animal/Bird	1	69				
SIDEVIEW3	710 Motor Vehicle	398	46168				
	Total	441	52201				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	9	0.02	984	1.89%			
Public	398	0.90	46168	88.44%			
Maintanance issues	5	0.01	846	1.62%			
Contract crew tree	17	0.04	1734	3.32%			
Trees	1	0.00	83	0.16%			
Weather	10	0.02	2317	4.44%			
Animals	1	0.00	69	0.13%			
	441	1.00	52201	100.00%			
SIDEVIEW3	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	30.25	72.56	59.49	154.89	7.19	64.88	130.87
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.2	0.81	0.85	1.27	0.09	0.64	1.11



Sideview Substation - Circuit 4

SIDEVIEW4	300 Material or Equip Failure	272	46285				
SIDEVIEW4	300 Material or Equip Failure	1	96				
SIDEVIEW4	300 Material or Equip Failure	45	4545				
SIDEVIEW4	300 Material or Equip Failure	74	10804				
SIDEVIEW4	300 Material or Equip Failure	1	113				
		486	66223				
SIDEVIEW4	340 Overload	1	177				
SIDEVIEW4	430 Tree failure without ice/snow	1	241				
SIDEVIEW4	430 Tree failure without ice/snow	26	7034				
SIDEVIEW4	430 Tree failure without ice/snow	1	428				
		28	7703				
SIDEVIEW4	500 Lightning	7	784				
SIDEVIEW4	500 Lightning	1	49				
SIDEVIEW4	500 Lightning	40	3120				
SIDEVIEW4	500 Lightning	1	66				
SIDEVIEW4	500 Lightning	1	63				
SIDEVIEW4	500 Lightning	3	93				
SIDEVIEW4	500 Lightning	1	96				
SIDEVIEW4	500 Lightning	2	1828				
SIDEVIEW4	500 Lightning	1	138				
SIDEVIEW4	510 Wind, Not Trees	5	2110				
SIDEVIEW4	520 Ice, Sleet, Frost, Not Trees	15	5580				
SIDEVIEW4	590 Weather, Other	3	198				
		80	14125				
SIDEVIEW4	600 Small Animal/Bird	1	54				
SIDEVIEW4	600 Small Animal/Bird	1	61				
SIDEVIEW4	600 Small Animal/Bird	1	140				
SIDEVIEW4	600 Small Animal/Bird	15	1215				
SIDEVIEW4	601 Squirrel	1	29				
SIDEVIEW4	601 Squirrel	1	81				
SIDEVIEW4	601 Squirrel	4	180				
SIDEVIEW4	601 Squirrel	2	222				
		26	1982				
SIDEVIEW4	999 Cause Unknown	3	207				
SIDEVIEW4	999 Cause Unknown	7	1274				
SIDEVIEW4	999 Cause Unknown	2	116				
SIDEVIEW4	999 Cause Unknown	3	162				
SIDEVIEW4	999 Cause Unknown	4	292				
SIDEVIEW4	999 Cause Unknown	15	600				
SIDEVIEW4	999 Cause Unknown	1	40				

Sideview Substation - Circuit 4

		35	2691				
	Total	664	94345				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	8	0.01	1444	1.53%			
Overload	1	0.00	177	0.19%			
Maintanance issues	486	0.73	66223	70.19%			
Unknown	35	0.05	2691	2.85%			
Trees outside ROW	28	0.04	7703	8.16%			
Weather	80	0.12	14125	14.97%			
Animals	26	0.04	1982	2.10%			
	664	1.00	94345	100.00%			
SIDEVIEW4	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	35.63	203.2	121.53	54.65	73.42	97.686	183.86
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.62	1.74	0.85	0.58	1.7	1.10	1.34



Stanton Substation - Circuit 3

STANTON3	100 Construction	3	192				
STANTON3	100 Construction	10	710				
STANTON3	100 Construction	1	222				
STANTON3	100 Construction	1	222				
STANTON3	100 Construction	1	222				
STANTON3	100 Construction	2	270				
STANTON3	100 Construction	2	58				
STANTON3	100 Construction	1	279				
STANTON3	100 Construction	2	422				
STANTON3	100 Construction	1	193				
STANTON3	100 Construction	1	191				
STANTON3	110 Maintenance	1	39				
STANTON3	110 Maintenance	1	27				
STANTON3	110 Maintenance	6	156				
		43	3888				
STANTON3	300 Material/Equip Failure	3	150				
STANTON3	300 Material/Equip Failure	1	67				
STANTON3	300 Material/Equip Failure	1	37				
STANTON3	300 Material/Equip Failure	1	22				
STANTON3	300 Material/Equip Failure	1	64				
STANTON3	300 Material/Equip Failure	1	147				
STANTON3	300 Material/Equip Failure	1	56				
STANTON3	300 Material/Equip Failure	1	193				
		10	736				
STANTON3	420 Tree Growth	1	92				
STANTON3	420 Tree Growth	3	168				
STANTON3	420 Tree Growth	2	210				
		6	470				
STANTON3	430 Tree failure without ice/snow	7	1099				
STANTON3	430 Tree failure without ice/snow	7	910				
STANTON3	430 Tree failure without ice/snow	44	4721				
STANTON3	430 Tree failure without ice/snow	19	4750				
STANTON3	430 Tree failure without ice/snow	21	7098				
STANTON3	430 Tree failure without ice/snow	7	1113				
STANTON3	430 Tree failure without ice/snow	13	1456				
STANTON3	430 Tree failure without ice/snow	3	387				
STANTON3	430 Tree failure without ice/snow	6	2226				
STANTON3	430 Tree failure without ice/snow	4	76				
STANTON3	430 Tree failure without ice/snow	2	106				
		133	23942				
STANTON3	500 Lightning	1	108				
STANTON3	500 Lightning	1	3100				
STANTON3	500 Lightning	1	2554				

Stanton Substation - Circuit 3

STANTON3	510 Wind, Not Trees	9	6120				
		12	11882				
STANTON3	600 Small Animal/Bird	6	510				
STANTON3	601 Squirrel	4	192				
STANTON3	601 Squirrel	1	33				
STANTON3	601 Squirrel	2	56				
STANTON3	601 Squirrel	90	6030				
STANTON3	601 Squirrel	6	474				
STANTON3	601 Squirrel	1	37				
STANTON3	601 Squirrel	6	264				
		116	7596				
	Total	320	48514				
	CustomerMinutes		% of SAIDI				
Tree Growth	470		0.97%				
Planned	3888		8.01%				
Maintanance issues	736		1.52%				
Trees	23942		49.35%				
Weather	11882		24.49%				
Animals	7596		15.66%				
	48514		100.00%				
Stanton 3	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	33.33	45.82	43.64	34.73	38.42	39.19	68.27



SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Stanton E1							
2.	Substation Location (County-Road-Town) Powell-Halls Lane-Stanton							
3.	Circuit name and number - Hwy 213\Spacer Cable - Ct. 5							
4.	Circuit Location (town-Road) Stanton-Roslyn							
5.	Total circuit length (miles) - 41.60							
6.	Customer count for this circuit - 801							
7.	Date of last circuit trim (VM) - 2012							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause							
	(See attached document)							
9.	Circuit 5 year average (SAIDI) 42.83							
10.	Reporting year (SAIDI) 2015 - 53.48							
11.	Circuit 5 year average (SAIFI)							
12.	Reporting year (SAIFI) 2015							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
Feeder	Cause	CustomersAffected	CustomerMinutes					
STANTON5	100 Construction	1	49					
STANTON5	100 Construction	3	165					
STANTON5	100 Construction	2	298					

Stanton Substation - Circuit 5

STANTON5	100 Construction	2	326				
STANTON5	100 Construction	3	246				
STANTON5	100 Construction	2	340				
STANTON5	100 Construction	2	124				
STANTON5	100 Construction	10	2400				
STANTON5	100 Construction	7	504				
STANTON5	110 Maintenance	21	315				
STANTON5	110 Maintenance	3	180				
STANTON5	110 Maintenance	11	440				
STANTON5	110 Maintenance	2	68				
STANTON5	110 Maintenance	1	32				
STANTON5	110 Maintenance	1	17				
		71	5504				
STANTON5	300 Material or Equip Failure	1	71				
STANTON5	300 Material or Equip Failure	1	86				
STANTON5	300 Material or Equip Failure	1	75				
STANTON5	300 Material or Equip Failure	1	22				
STANTON5	490 Maintenance, Other	6	518				
		10	772				

STANTON5	430 Tree failure without ice/snow	56	9602				
STANTON5	430 Tree failure without ice/snow	10	440				
STANTON5	430 Tree failure without ice/snow	3	48				
STANTON5	430 Tree failure without ice/snow	4	696				
STANTON5	430 Tree failure without ice/snow	51	10605				
STANTON5	430 Tree failure without ice/snow	4	172				
STANTON5	430 Tree failure without ice/snow	3	495				
STANTON5	430 Tree failure without ice/snow	4	236				
STANTON5	430 Tree failure without ice/snow	4	460				
		139	22754				

STANTON5	500 Lightning	5	145				
STANTON5	500 Lightning	22	572				
STANTON5	500 Lightning	6	168				
STANTON5	500 Lightning	58	5974				
STANTON5	500 Lightning	1	32				
STANTON5	500 Lightning	12	600				
STANTON5	500 Lightning	6	6840				
STANTON5	500 Lightning	1	1131				

Stanton Substation - Circuit 5

STANTON5	500 Lightning	1	665				
		112	16127				
STANTON5	600 Small Animal/Bird	1	106				
STANTON5	600 Small Animal/Bird	1	27				
STANTON5	601 Squirrel	3	141				
STANTON5	601 Squirrel	4	120				
STANTON5	601 Squirrel	1	90				
STANTON5	601 Squirrel	1	83				
STANTON5	601 Squirrel	2	132				
		13	699				
STANTON5	790 Public, Other	12	768				
STANTON5	999 Cause Unknown	2	104				
	Total	349	46728				
	CustomerMinutes	% of SAIDI					
Planned	5504	11.78%					
Maintanance issues	772	1.65%					
Trees	22754	48.69%					
Weather	16127	34.51%					
Animals	699	1.50%					
Public	768	1.64%					
Unknown	104	0.22%					
	46728	100.00%					
Stanton 5	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	25.23	20.66	32.56	96.41	39.27	42.83	53.48



Three Forks Substation - Circuit 1

		237	2772				
THRFRKS1	300 Material or Equip Failure	2	248				
THRFRKS1	300 Material or Equip Failure	2	148				
THRFRKS1	300 Material or Equip Failure	1	55				
THRFRKS1	300 Material or Equip Failure	233	20504				
THRFRKS1	300 Material or Equip Failure	1	138				
THRFRKS1	400 Decay/Age of Material/Equipment	44	9064				
THRFRKS1	400 Decay/Age of Material/Equipment	3	297				
THRFRKS1	400 Decay/Age of Material/Equipment	4	900				
		290	31354				
THRFRKS1	420 Tree Growth	6	1680				
THRFRKS1	420 Tree Growth	43	7095				
THRFRKS1	420 Tree Growth	3	5547				
		52	14322				
THRFRKS1	430 Tree failure without ice/snow	326	28114				
THRFRKS1	430 Tree failure without ice/snow	4	576				
THRFRKS1	430 Tree failure without ice/snow	3	1533				
		333	30223				
THRFRKS1	500 Lightning	4	532				
THRFRKS1	500 Lightning	11	715				
THRFRKS1	500 Lightning	1	179				
THRFRKS1	500 Lightning	3	735				
THRFRKS1	500 Lightning	1	301				
THRFRKS1	500 Lightning	1	1821				
THRFRKS1	500 Lightning	6	324				
THRFRKS1	500 Lightning	1	189				
		28	4796				
THRFRKS1	600 Small Animal/Bird	1	37				
THRFRKS1	601 Squirrel	5	420				
		6	457				
THRFRKS1	710 Motor Vehicle	3	492				
THRFRKS1	999 Cause Unknown	2	120				
THRFRKS1	999 Cause Unknown	1	57				
THRFRKS1	999 Cause Unknown	11	1804				
THRFRKS1	999 Cause Unknown	1	68				
		15	2049				

Three Forks Substation - Circuit 1

	Total	964	86465				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Planned	237	0.25	2772	3.21%			
Maintanance issues	290	0.30	31354	36.26%			
Tree growth	52	0.05	14322	16.56%			
Trees out of ROW	333	0.35	30223	34.95%			
Weather	28	0.03	4796	5.55%			
Animals	6	0.01	457	0.53%			
Public	3	0.00	492	0.57%			
Unknown	15	0.02	2049	2.37%			
	964	1.00	86465	100.00%			
THRFRKS1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	109.56	39.59	131.58	79.42	244.13	120.86	243.08
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	1.33	1.31	1.62	0.5	1.92	1.34	2.95

Three Forks Substation - Circuit 2

<b>SECTION 5: CIRCUIT REPORTING</b>							
<b>(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)</b>							
<b>(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)</b>							
1.	Substation Name and number - Threeforks S61						
2.	Substation Location (County-Road-Town) Madison-Three Forks-Richmond						
3.	Circuit name and number - Madison Village - Ct.2						
4.	Circuit Location (town-Road) Richmond-Three Forks						
5.	Total circuit length (miles) - 17.83						
6.	Customer count for this circuit - 145						
7.	Date of last circuit trim (VM) - 2011						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause						
	(See attached document)						
9.	Circuit 5 year average (SAIDI) 63.79						
10.	Reporting year (SAIDI) 2015 - 194.11						
11.	Circuit 5 year average (SAIFI) 0.79						
12.	Reporting year (SAIFI) 2015 - 1.40						
13.	Corrective action plan (See attached document)						
<b>SECTION 7: UTILITY COMMENTS</b>							
		Corrective actions are not required					
Feeder	Cause	CustomersAffected	CustomerMinutes				
THRFRKS2	100 Construction	2	100				

Three Forks Substation - Circuit 2

THRFRKS2	100 Construction	3	486				
THRFRKS2	100 Construction	5	425				
THRFRKS2	100 Construction	3	141				
THRFRKS2	100 Construction	6	276				
THRFRKS2	100 Construction	5	955				
THRFRKS2	110 Maintenance	3	108				
THRFRKS2	110 Maintenance	8	256				
		35	2747				
THRFRKS2	300 Material/Equip Failure	2	202				
THRFRKS2	300 Material/Equip Failure	2	422				
THRFRKS2	400 Decay Material/Equipment	59	6431				
		63	7055				
THRFRKS2	340 Overload	2	238				
THRFRKS2	340 Overload	2	192				
THRFRKS2	340 Overload	2	520				
		6	950				
THRFRKS2	420 Tree Growth	4	240				
THRFRKS2	420 Tree Growth	11	693				
THRFRKS2	420 Tree Growth	23	1380				
		38	2313				
THRFRKS2	430 Tree failure without ice/snow	453	67004				
THRFRKS2	430 Tree failure without ice/snow	11	5346				
		464	72350				
THRFRKS2	500 Lightning	7	805				
THRFRKS2	600 Small Animal/Bird	3	312				
THRFRKS2	600 Small Animal/Bird	7	602				
THRFRKS2	600 Small Animal/Bird	1	40				
THRFRKS2	601 Squirrel	3	267				
THRFRKS2	601 Squirrel	2	196				
		16	1417				



Three Forks Substation - Circuit 2

THRFRKS2	999 Cause Unknown	7	812				
	Total	636	88449				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Overload	6	0.01	950	1.07%			
Planned	35	0.06	2747	3.11%			
Maintanance issues	63	0.10	7055	7.98%			
Trees out of ROW	464	0.73	72350	81.80%			
Weather	7	0.01	805	0.91%			
Animals	16	0.03	1417	1.60%			
Tree growth	38	0.06	2313	2.62%			
Unknown	7	0.01	812	0.92%			
	636	1.00	88449	100.00%			
THRFRKS2	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	20.77	83.03	16.07	13.35	185.73	63.79	194.11
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.21	1.26	1.12	0.2	1.18	0.79	1.4

SECTION 5: CIRCUIT REPORTING								
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)								
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)								
1.	Substation Name and number - Threeforks S61							
2.	Substation Location (County-Road-Town) Madison-Three Forks-Richmond							
3.	Circuit name and number - Union City/Brumfield - CT. 3							
4.	Circuit Location (town-Road) Richmond-Three Forks							
5.	Total circuit length (miles) - 7.13							
6.	Customer count for this circuit - 145							
7.	Date of last circuit trim (VM) - 2011							
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)							
9.	Circuit 5 year average (SAIDI) 91.54							
10.	Reporting year (SAIDI) 2015 - 303.29							
11.	Circuit 5 year average (SAIFI) 1.06							
12.	Reporting year (SAIFI) 2015 - 1.99							
13.	Corrective action plan (See attached document)							
SECTION 7: UTILITY COMMENTS								
			Corrective actions are not required					
Feeder	Date	CustomersAffected	CustomerMinutes					
THRFRKS3	100 Construction	1	31					
THRFRKS3	110 Maintenance	2	28					
THRFRKS3	110 Maintenance	2	76					
		5	135					

Three Forks Substation - Circuit 3

THRFRKS3	300 Material/Equip Failure	9	1116				
THRFRKS3	300 Material/Equip Failure	113	9605				
THRFRKS3	300 Material/Equip Failure	1	158				
THRFRKS3	300 Material/Equip Failure	134	27872				
THRFRKS3	400 Decay Material/Equipment	1	44				
		258	38795				
THRFRKS3	340 Overload	1	162				
THRFRKS3	340 Overload	1	257				
		2	419				
THRFRKS3	420 Tree Growth	2	112				
THRFRKS3	420 Tree Growth	2	20				
THRFRKS3	420 Tree Growth	2	104				
		6	236				
THRFRKS3	500 Lightning	2	94				
THRFRKS3	500 Lightning	2	240				
THRFRKS3	500 Lightning	10	3470				
THRFRKS3	500 Lightning	31	8153				
		45	11957				
	Total	316	51542				
	CustomersAffected	SAIFI	CustomerMinutes	% of SAIDI			
Tree Growth	6	0.02	236	0.46%			
Planned	5	0.02	135	0.26%			
Maintanance issues	258	0.82	38795	75.27%			
Weather	45	0.14	11957	23.20%			
Overload	2	0.01	419	0.81%			
	316	1.00	51542	100.00%			
Three Forks 3	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	55.2	70.47	34.86	109.64	187.53	91.54	303.29
	2010	2011	2012	2013	2014	5 Yr Ave	2015

Three Forks Substation - Circuit 3

SAIFI	0.62	1.19	0.3	1.16	2.05	1.06	1.99	



Trapp Substation - Circuit 2

		7	545				
TRAPP2	300 Material or Equip Failure	1	123				
TRAPP2	400 Decay of Material/Equip	1	273				
		2	396				
TRAPP2	340 Overload	3	489				
TRAPP2	340 Overload	2	920				
		5	1409				
TRAPP2	420 Tree Growth	2	152				
TRAPP2	430 Tree failure without ice/snow	61	20740				
TRAPP2	430 Tree failure without ice/snow	23	4277				
TRAPP2	430 Tree failure without ice/snow	3	897				
TRAPP2	430 Tree failure without ice/snow	1	38				
TRAPP2	430 Tree failure without ice/snow	7	1386				
TRAPP2	430 Tree failure without ice/snow	22	3058				
		117	30396				
TRAPP2	500 Lightning	1	44				
TRAPP2	500 Lightning	1	167				
TRAPP2	500 Lightning	2	54				
TRAPP2	500 Lightning	2	104				
TRAPP2	590 Weather, Other	2	140				
		8	509				
TRAPP2	600 Small Animal/Bird	1	63				
TRAPP2	601 Squirrel	1	50				
TRAPP2	601 Squirrel	2	278				
TRAPP2	601 Squirrel	6	594				
TRAPP2	601 Squirrel	1	43				
		11	1028				
TRAPP2	710 Motor Vehicle	41	3895				
TRAPP2	999 Cause Unknown	1	97				
	Total	194	38427				
	CustomersAffected	CustomerMinutes	% of SAIDI				
Overload	5	1409	3.67%				

Trapp Substation - Circuit 2

Planned	7	545	1.42%				
Public	41	3895	10.14%				
Maintanance issues	2	396	1.03%				
Trees out of ROW	117	30396	79.10%				
Weather	8	509	1.32%				
Animals	11	1028	2.68%				
Tree growth	2	152	0.40%				
Unknown	1	97	0.25%				
	194	38427	100.00%				
Trapp2	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	74.29	25.06	11.78	101.15	84.11	59.28	98.01









Treehaven Substation - Circuit 2

Feeder	Date	CustomersAffected	CustomerMinutes				
TREEHAVEN2	000 Power Supply	71	3621				
TREEHAVEN2	340 Overload	6	330				
TREEHAVEN2	300 Material or Equipment Fault/Failure	2	356				
TREEHAVEN2	300 Material or Equipment Fault/Failure	25	8377				
		27	8733				
TREEHAVEN2	100 Construction	2	174				
TREEHAVEN2	999 Cause Unknown	19	1159				
	<b>Total</b>	<b>125</b>	<b>14017</b>				
	<b>Members Affected</b>	<b>SAIFI</b>	<b>CustomerMinutes</b>	<b>% of SAIDI</b>			
Power Supply	71	0.568	3621	25.83%			
Overload	6	0.048	330	2.35%			
Maintanance issues	27	0.216	8733	62.30%			
Planned	2	0.016	174	1.24%			
Unknown	19	0.152	1159	8.27%			
	125	1.000	14017	100.00%			
Union City 4	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	37.36	8.88	20	0	0	13.25	146.79
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.11	0.14	0.28	0	0	0.11	0.76



Treehaven Substation - Circuit 4

Feeder	Date	CustomersAffected	CustomerMinutes				
TREEHAVEN2	000 Power Supply	125	6375				
TREEHAVEN4	740 Public Cuts Tree	127	12453				
TREEHAVEN4	100 Construction	5	270				
	<b>Total</b>	<b>257</b>	<b>19098</b>				
	<b>Members Affected</b>	<b>SAIFI</b>	<b>CustomerMinutes</b>	<b>% of SAIDI</b>			
Power Supply	125	0.492	6375	33.38%			
Public	127	0.500	12453	65.21%			
Planned	2	0.008	270	1.41%			
	<b>254</b>	<b>1.000</b>	<b>19098</b>	<b>100.00%</b>			
TREEHAVEN4	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	4.75	49.24	65.71	1.64	0	24.27	102.06
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.1	0.98	0.87	0.04	0	0.40	1.06

<b>SECTION 5: CIRCUIT REPORTING</b>							
<b>(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)</b>							
<b>(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)</b>							
1.	Substation Name and number - Van Meter N36						
2.	Substation Location (County-Road-Town) Clark-Van Meter-Winchester						
3.	Circuit name and number - Van Meter - Ct 1						
4.	Circuit Location (town-Road) Winchester-Van Meter Road						
5.	Total circuit length (miles) - 11.58						
6.	Customer count for this circuit - 91						
7.	Date of last circuit trim (VM) - 2015/2016						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause						
	(See attached document)						
9.	Circuit 5 year average (SAIDI) 111.31						
10.	Reporting year (SAIDI) 2015 -251.64						
11.	Circuit 5 year average (SAIFI) N/A						
12.	Reporting year (SAIFI) 2015 N/A						
13.	Corrective action plan (See attached document)						
<b>SECTION 7: UTILITY COMMENTS</b>							
			Corrective actions are not required				
Feeder	Individual outages	CustomersAffected	CustomerMinutes				
VANMTR1	000 Power Supply	91	3294				
VANMTR1	100 Construction	20	5320				
VANMTR1	300 Material or Equip Failure	3	243				

Van Meter Substation - Circuit 1

VANMTR1	420 Tree Growth	9	1917				
VANMTR1	500 Lightning	1	91				
VANMTR1	500 Lightning	13	7176				
		14	7267				
VANMTR1	611 Cattle Rubbing	9	603				
	Total	146	18644				
	Members Affected	CustomerMinutes	% of SAIDI				
Power Supply	91	3294	29.59%				
Planned	20	5320	47.78%				
Trees	9	1917	17.22%				
Animals	9	603	5.42%				
	129	11134	100.00%				
Van Meter1	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIDI	309.3	44.4	118.36	15.76	68.75	111.31	251.64

SECTION 5: CIRCUIT REPORTING							
(CIRCUITS WITH SAIDI AND/OR SAIFI EXCEEDING 5 YEAR AVERAGE)							
(CIRCUIT NUMBERS SHOULD BE REPORTED EXCLUDING MED)							
1.	Substation Name and number - Van Meter N36						
2.	Substation Location (County-Road-Town) Clark-Van Meter-Winchester						
3.	Circuit name and number - Van Meter - Ct 2						
4.	Circuit Location (town-Road) Winchester- Rockwell Road						
5.	Total circuit length (miles) - 6.82						
6.	Customer count for this circuit - 63						
7.	Date of last circuit trim (VM) - 2015/2016						
8.	List outage causes for circuit along with percentage of total outage numbers represented by each cause (See attached document)						
9.	Circuit 5 year average (SAIDI) 25.45						
10.	Reporting year (SAIDI) 2015 - 44.90						
11.	Circuit 5 year average (SAIFI) 0.37						
12.	Reporting year (SAIFI) 2015 - 0.48						
13.	Corrective action plan (See attached document)						
SECTION 7: UTILITY COMMENTS							
		Corrective actions are not required					
Feeder	Individual outages	CustomersAffected	CustomerMinutes				
VANMTR2	000 Power Supply	63	3402				
VANMTR2	100 Construction	1	121				



Van Meter Substation - Circuit 2

VANMTR2	400 Decay/Age of Material/Equip	10	1020					
VANMTR2	420 Tree Growth	3	168					
VANMTR2	430 Tree failure without ice/snow	4	396					
VANMTR2	430 Tree failure without ice/snow	2	194					
		6	590					
VANMTR2	500 Lightning	1	1031					
VANMTR2	601 Squirrel	10	930					
	Total	94	7262					
	Members Affected	SAIFI	CustomerMinutes	% of SAIDI				
Power Supply	63	0.670	3402	46.85%				
Planned	1	0.011	121	1.67%				
Maintanance issues	10	0.106	1020	14.05%				
Tree Growth	3	0.032	168	2.31%				
Tree out of ROW	6	0.064	590	8.12%				
Weather	1	0.011	1031	14.20%				
Animal	10	0.106	930	12.81%				
	94	1.000	7262	100.00%				
VANMTR2	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIDI	19.19	79.7	5.93	11.92	10.53	25.45	44.9	
	2010	2011	2012	2013	2014	5 Yr Ave	2015	
SAIFI	0.33	1.13	0.12	0.15	0.11	0.37	0.48	



Van Meter Substation - Circuit 3

VANMTR3	300 Material or Equipment Fault/Failure	4	620					
VANMTR3	300 Material or Equipment Fault/Failure	2	420					
VANMTR3	400 Decay/Age of Material/Equipment	70	9394					
VANMTR3	410 Corrosion of Material/Equipment	2	290					
		78	10724					
VANMTR3	340 Overload	1	52					
VANMTR3	420 Tree Growth	2	162					
VANMTR3	420 Tree Growth	2	146					
VANMTR3	420 Tree Growth	4	400					
VANMTR3	420 Tree Growth	7	1568					
VANMTR3	420 Tree Growth	9	20016					
VANMTR3	420 Tree Growth	13	1053					
VANMTR3	420 Tree Growth	13	832					
VANMTR3	420 Tree Growth	7	455					
		57	24632					
VANMTR3	430 Tree failure without ice/snow	46	3358					
VANMTR3	430 Tree failure without ice/snow	1	66					
VANMTR3	430 Tree failure without ice/snow	1	106					
VANMTR3	430 Tree failure without ice/snow	561	35036					
VANMTR3	430 Tree failure without ice/snow	68	99546					
		677	138112					
VANMTR3	470 Borrower crew cuts tree	13	754					
VANMTR3	500 Lightning	2	112					
VANMTR3	500 Lightning	1	131					
VANMTR3	500 Lightning	2	362					
VANMTR3	500 Lightning	7	840					
VANMTR3	500 Lightning	13	481					
VANMTR3	500 Lightning	13	1014					
VANMTR3	500 Lightning	13	1313					
VANMTR3	500 Lightning	1	74					
VANMTR3	500 Lightning	561	91443					
VANMTR3	500 Lightning	2	488					
VANMTR3	500 Lightning	1	558					
VANMTR3	500 Lightning	3	168					



Van Meter Substation - Circuit 3

SAIDI	41.76	111.9	117.01	44.53	93.41	81.72	161.49
	2010	2011	2012	2013	2014	5 Yr Ave	2015
SAIFI	0.51	1.13	1.7	0.42	0.76	0.90	1.77