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E. Minna Rolfes-Adkins

Sr. Paralegal

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April 29, 2016

RECEIVED

MAY 0 2 2016

PUBLIC SERVICE COMMISSION

VIA OVERNIGHT DELIVERY

Mr. Kyle Willard Kentucky Public Service Commission 211 Sower Boulevard P.O. Box 615 Frankfort, KY 40602

RE: 2015 Reliability Report and Vegetation Management Plan Update

Dear Mr. Willard:

Enclosed please find a signed paper and one electronic copy of the Duke Energy Kentucky, Inc. 2015 Reliability Report and Vegetation Management Plan Update.

We have included the unredacted part of Exhibit A in a separate envelope to be filed under seal. Also enclosed is a Petition for Confidential Treatment for your consideration in the above referenced matter.

Please date-stamp the two copies of the letter and the filings and return to me in the enclosed envelope.

Should you have any questions, please do not hesitate to contact me.

Very truly yours,

E. Minna Rolfes-Adkins

Merina Radelle

Sr. Paralegal

ERA

Enclosures

RECEIVED

COMMONWEALTH OF KENTUCKY

MAY **0.2** 2016

BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE.

An Investigation of the Reliability)	
Measures of Kentucky's Jurisdictional)	Administrative
Electric Distribution Utilities)	Case No. 2011-00450

DUKE ENERGY KENTUCKY, INC.'S PETITION FOR THE CONFIDENTIAL TREATMENT OF CERTAIN INFORMATION FILED FOR CALENDAR YEAR 2015

Duke Energy Kentucky, Inc. (Duke Energy Kentucky or Company) respectfully submits this petition in accordance with 807 KAR 5:001 Section 13, seeking the confidential treatment of certain information filed for calendar year 2014:

- 1. On January 11, 2012, the Commission issued an Order in this proceeding requiring Duke Energy Kentucky to collect and maintain all records necessary to evaluate its system reliability performance in accordance with the methodology established by the most recent edition of the ("IEEE") standard number 1366 "Guide for Electric Power Distribution Reliability Indices," which currently is IEEE Standard 1366-2012.
- 2. On May 30, 2013, the Commission issued its Order requiring all jurisdictional utilities to file annual reliability reports and to develop vegetation management plans. Pursuant to the Order, jurisdictional utilities were required to report a 5 year average of reliability data. The reports are required to be based upon a calendar year (January to December) and filed by the first business day in May in the year immediately following the reporting year.
- 3. The Commission's regulations, in 807 KAR 5:001, Section 13, provide that any person requesting confidential treatment of any material file a petition setting

forth the grounds, pursuant to KRS 61.870 et seq., upon which the Commission should classify that material as confidential.

- 4. Kentucky Revised Statute § 61.878(1)(c)(1) provides that records confidentially disclosed to an agency or required to be disclosed to the agency be exempt from Kentucky's open records statutes, KRS 61.870 et seq. where the records are generally recognized as confidential or proprietary, and which if openly disclosed would permit an unfair commercial advantage to competitors of the entity that disclosed the records.
- 5. Duke Energy Kentucky submits that the following information, if openly disclosed, could present security issues:
 - a. Physical street addresses of all the Company's electric substations and circuits.
- 6. The above information, if openly disclosed, would allow the public knowledge as to the specific physical location of critical utility infrastructure, namely Duke Energy Kentucky substations and circuits. With this information, a possible security issue could arise. Such actions might include theft, destruction, possible injury, and/or vandalism. Releasing the street address of all of the Company's electric substations in one public filing would present a significant security and reliability risk where a concentrated action could undermine Duke Energy Kentucky's distribution system and the security of its grid.
- 7. The information for which Duke Energy Kentucky is seeking confidential treatment is not known outside of Duke Energy Corporation.
- 8. Duke Energy Kentucky does not object to limited disclosure of the confidential information described herein, pursuant to an acceptable protective

agreement, to the Attorney General or other intervenors with a legitimate interest in reviewing the same for the purpose of participating in this case.

- 9. Pursuant to 807 KAR 5:001 Section 13(2), Duke Energy Kentucky has attached to this Petition, under seal, one copy of Exhibit A of the 2015 Reliability Report and Vegetation Management Plan and one copy of Exhibit A of the 2015 Reliability Report and Vegetation Management Plan with the confidential material omitted or otherwise redacted. Duke Energy Kentucky respectfully requests that the Confidential Information be withheld from public disclosure indefinitely. This will assure that the Confidential Information will not become available to the general public. To the extent the Confidential information becomes generally available to the public, whether through filings required by other agencies or otherwise, Duke Energy Kentucky will notify the Commission and have its confidential status removed, pursuant to 807 KAR 5:001 Section 13(10)(a).
- 10. This information was, and remains, integral to Duke Energy Kentucky's effective execution of business decisions. And such information is generally regarded as confidential or proprietary. Indeed, as the Kentucky Supreme Court has found, "information concerning the inner workings of a corporation is 'generally accepted as confidential or proprietary." Hoy v. Kentucky Industrial Revitalization Authority, Ky., 904 S.W.2d 766, 768 (Ky. 1995).

WHEREFORE, Duke Energy Kentucky respectfully request that the Commission:

- 1. Accept this Petition for filing;
- 2. Grant the information delineated herein confidential treatment in accordance with 807 KAR 5:001 Section 13 and KRS 61.870 et seq.

Respectfully submitted,

DUKE ENERGY KENTUCKY, INC.

Rocco D'Ascenzo (92796)

Associate General Counsel

Amy B. Spiller (85309)

Deputy General Counsel

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Cincinnati, Ohio 45201-0960

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CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing filing was served on the following via overnight mail, this 291 day of April, 2016:

Larry Cook

The Office of the Attorney General

1024 Capital Center Drive Frankfort, Kentucky, 40601

Rocco D'Ascenzo

COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

DUKE ENERGY KENTUCKY, INC.
RELIABILITY REPORT AND VEGETATION MANAGEMENT PLAN UPDATE FOR
CALENDAR YEAR 2015

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I. Introduction

On May 30, 2013, the Commission issued its Order requiring all jurisdictional utilities to file annual reliability reports and to develop vegetation management plans. Pursuant to the Order, jurisdictional utilities were required to report a 5 year average of reliability data. The reports are required to be based upon a calendar year (January to December) and filed by the first business day in May in the year immediately following the reporting year.

Duke Energy Kentucky, Inc. (Duke Energy Kentucky or the Company) submits its Reliability Report and Vegetation Management Plan update for Calendar year 2015 as required by the Commission's May 30, 2013 Order in Case No. 2011-00450.¹

II. Reliability Report Summary

Consistent with the most recent edition of the standard number 1366 "Guide for Electric Power Distribution Reliability Indices," and the Commission's Order,² the following is included in Exhibit A of Duke Energy Kentucky's Reliability Report Summary:

- 1. Calculate the System Average Interruption Duration Index (SAIDI) system-wide indices including Major Event Days (MEDs) and calculate the SAIDI system-wide indices excluding MEDs;
- 2. Calculate the System Average Interruption Frequency Index (SAIFI) system-wide indices including MEDs and calculate the SAIFI system-wide indices excluding MEDs;
 - 3. Develop a system-wide rolling five-year average SAIDI excluding MEDs;
 - 4. Develop a system-wide rolling five-year average SAIFI excluding MEDs;
 - 5. Calculate SAIDI excluding MEDs for every circuit within its system;
 - 6. Develop a rolling five-year average SAIDI for each circuit within its system;

1

¹ In the matter of An Investigation of the Reliability Measures of Kentucky's Jurisdictional Electric Distribution Utilities, Case No 2011-00450. (Order)(May 30, 2013).
² Id.

- 7. Compare each circuit to that circuit's rolling five-year average SAIDI;
- 8. Calculate SAIFI excluding MEDs for every circuit within its system;
- 9. Develop a rolling five-year average SAIFI for each circuit within its system:
- 10. Compare each circuit to that circuit's rolling five-year average SAIFI.
- 11. File a Reliability Report by May 1 of each year, containing the reliability information as outlined in the attached Appendix for the preceding calendar year from January 1 to December 31 that includes the SAIDI and SAIFI system-wide indices, both including and excluding MEDs.
- 12. For each circuit with either SAIDI or SAIFI value higher than that circuit's respective SAIDI or SAIFI rolling five-year average, excluding MEDs, include in the annual Reliability Report the following information:
 - a. The circuit's SAIDI index for the year;
 - b. The circuit's SAIFI index for the year;
 - c. The circuit's rolling five-year average SAIDI;
 - d. The circuit's rolling five-year average SAIFI;
 - e. The substation name, number and location (Le., County-Road-Town);
 - f. The circuit name, number and location (Town-Road-General Area);
 - g. The circuit's overall length in miles to the nearest tenth of a mile;
 - h. The number of customers served on the circuit for the year:
- i. The date of the last circuit trim performed by the utility as part of its vegetation management plan;
- j. A list of outage causes for the circuit, along with the percentage of total outage numbers represented by each cause;

- k. Circuit five-year average SAIDI;
- l. Reporting year SAIDI;
- m. Circuit five-year average SAIFI;
- n. Reporting year SAIFI;
- o. A Corrective Action Plan which describes any measures the utility has completed or plans to complete to improve the circuit's performance; and
- p. Any other information the utility believes will assist the Commission in understanding the circumstances surrounding the circuit's performance.³

III. Vegetation Management Plan Update and Summary

Duke Energy Kentucky filed its initial Vegetation Management Plan with this Commission on December 18, 2007 in Case No. 2006-00494.⁴ Duke Energy's Midwest Vegetation Management Group is responsible for controlling vegetation growth for 37,000 miles of transmission and distribution overhead electric lines and gas supply lines in Ohio, Indiana and Kentucky.

Exhibit B is a copy of Duke Energy Kentucky's Vegetation Management Plan. There have been no amendments or changes to the plan since it was initially filed with the Commission on December 18, 2007. There are no amendments or changes planned for 2016.

As part of its 2016 plan, Duke Energy Kentucky plans to trim trees and maintain vegetation along 313.72 miles of its distribution system. Although the weather conditions were harsh at times, Duke Energy Kentucky was able to get a good start on our Vegetation Plan for 2016. As of April 27, 2016, Duke Energy Kentucky has completed approximately 31.1% of its scheduled trimming, or approximately 97.72 miles of its distribution system. This leaves

³ *Id*.

approximately 216 miles to be trimmed in 2016. The Company does not anticipate any difficulty in completing all planned trimming for 2016. The Company will have sufficient crew coverage throughout the year.

Respectfully submitted,

Rocco O. D'Ascenzo (92796)

Associate General Counsel

Amy B. Spiller (85309)

Deputy General Counsel

Duke Energy Kentucky, Inc.

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KENTUCKY PUBLIC SERVICE COMMISSION

Electric Distribution Utility Annual Reliability Report

SECTION 1: CONTACT INFORMATION

UTILITY NAME	DUKE ENERGY KENTUCKY
REPORT PREPARED BY	ILONA KORB
E-MAIL ADDRESS OF PREPARER	ILONA.KORB@DUKE-ENERGY.COM
PHONE NUMBER OF PREPARER	513-287-3121

SECTION 2: REPORTING YEAR

CALENDAR YEAR OF REPORT	2015
	200

SECTION 3: MAJOR EVENT DAYS (MED)

TMED	4.79
FIRST DATE USED TO DETERMINE TMED	Jan 1, 2010
LAST DATE USED TO DETERMINE TMED	December 31, 2014
NUMBER OF MED IN REPORT YEAR	3

NOTE: Per IEEE 1366 TMED 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 137,431	TOTAL CIRCUITS	134	
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Excluding MED

5 YEAR A	AVERAGE	REPORTI	NG YEAR
SAIDI	115.91	SAIDI	98.33
SAIFI	1.211	SAIFI	0.979

Including MED

5 YEAR A	AVERAGE	REPORTI	NG YEAR
SAIDI	186.15	SAIDI	178.60
SAIFI	1.451	SAIFI	1.195

Notes

- 1) All duration indices (SAIDI) are to be reported in units of minutes.
- 2) Reports are due on the first business day of April 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 TMED

Duke Energy Kentucky Reliability Report and Vegetation Management For Calendar Year 2015 Exhibit A Page 2 of 9

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CIRCUIT NUMBER	SUBSTATION NAME	SUBSTATION NUMBER	SUBSTATION COUNTY	SUBSTATION ROAD	SUBSTATION TOWN	CIRCUIT NAME	CIRCUIT ID	CIRCUIT NUMBER	CIRCUIT TOWN
H9322050041	ALEXANDRIA SOUTH	205	CAMPBELL		ALEXANDRIA	ALEXANDRIA SOUTH 41	H9322050041	41	ALEXANDRIA
H9320780042	AUGUSTINE	78	KENTON		COVINGTON	AUGUSTINE 42	H9320780042	42	COVINGTON
H9320780043	AUGUSTINE	78	KENTON		COVINGTON	AUGUSTINE 43	H9320780043	43	COVINGTON
H9320780044	AUGUSTINE	78	KENTON		COVINGTON	AUGUSTINE 44	H9320780044	44	COVINGTON
H9320780045	AUGUSTINE	78	KENTON		COVINGTON	AUGUSTINE 45	H9320780045	45	COVINGTON
H9320780046	AUGUSTINE	78	KENTON		COVINGTON	AUGUSTINE 46	H9320780046	46	PARK HILLS
H9320860042	BEAVER	86	BOONE		WALTON	BEAVER 42	H9320860042	42	WALTON
H9320670041 H9320670043	BUFFINGTON	67	KENTON		FLORENCE	BUFFINGTON 41	H9320670041	41	ERLANGER
H9320670043	BUFFINGTON BUFFINGTON	67	KENTON		FLORENCE	BUFFINGTON 43	H9320670043	43	FLORENCE
H9320670046	BUFFINGTON	67	KENTON		FLORENCE	BUFFINGTON 46	H9320670046	46	FLORENCE
H9321470041	CLARYVILLE	67 147	KENTON CAMPBELL		FLORENCE	BUFFINGTON 47	H9320670047	47	FLORENCE
H9321470041	CLARYVILLE	147	CAMPBELL		CLARYVILLE	CLARYVILLE 41	H9321470041	41	GRANT'S LICK
H9321320041	COLD SPRING	132	CAMPBELL		CLARYVILLE	CLARYVILLE 42	H9321470042	42	GRANT'S LICK
H9321320041	COLD SPRING	132	CAMPBELL		COLD SPRINGS	COLD SPRING 41	H9321320041	41	COLD SPRINGS
H9320420041	CONSTANCE	42	BOONE		COLD SPRINGS	COLD SPRING 49	H9321320049	49	COLD SPRINGS
H9320420042	CONSTANCE	42	BOONE		ERLANGER ERLANGER	CONSTANCE 41	H9320420041	41	TAYLORSPORT
H9320420044	CONSTANCE	× 42	BOONE		ERLANGER	CONSTANCE 42	H9320420042	42	VILLA HILLS
H9322170041	COVINGTON	217	KENTON		COVINGTON	CONSTANCE 44 COVINGTON 41	H9320420044	44	ERLANGER
H9322170042	COVINGTON	217	KENTON		COVINGTON	COVINGTON 41	H9322170041 H9322170042	41 42	COVINGTON
H9322170043	COVINGTON	217	KENTON		COVINGTON	COVINGTON 42	H9322170042	42 43	COVINGTON
H9320700041	CRESCENT	70	KENTON		FT. MITCHELL	CRESCENT 41	H9320700041	43 41	COVINGTON
H9320700043	CRESCENT	70	KENTON		FT. MITCHELL	CRESCENT 43	H9320700041	43	CRESCENT SPRINGS FT. MITCHELL
H9321240041	CRITTENDEN	124	GRANT		CRITTENDEN	CRITTENDEN 41	H9321240041	41	CRITTENDEN
H9321240042	CRITTENDEN	124	GRANT		CRITTENDEN	CRITTENDEN 42	H9321240042	42	CRITTENDEN
H9320760041	DAYTON	76	CAMPBELL		DAYTON	DAYTON 41	H9320760041	41	DAYTON
H9320760042	DAYTON	76	CAMPBELL		DAYTON	DAYTON 42	H9320760042	42	DAYTON
H9320760043	DAYTON	76	CAMPBELL		DAYTON	DAYTON 43	H9320760043	43	DAYTON
H9322990041	DECORSEY	299	KENTON		TAYLOR MILL	DECORSEY 41	H9322990041	41	TAYLOR MILL
H9320890041	DIXIE	89	BOONE		FLORENCE	DIXIE 41	H9320890041	41	FLORENCE
H9320890042	DIXIE	89	BOONE		FLORENCE	DIXIE 42	H9320890042	42	FLORENCE
H9321090041	DRY RIDGE	109	GRANT		DRY RIDGE	DRY RIDGE 41	H9321090041	41	DRY RIDGE
H9321090042 H9322410043	DRY RIDGE	109	GRANT		DRY RIDGE	DRY RIDGE 42	H9321090042	42	DRY RIDGE
H9322410043	FLORENCE FLORENCE	241	BOONE		FLORENCE	FLORENCE 43	H9322410043	43	FLORENCE
H9322410044	FLORENCE	241 241	BOONE BOONE		FLORENCE	FLORENCE 44	H9322410044	44	FLORENCE
H9321610041	GRANT	161	GRANT		FLORENCE	FLORENCE 46	H9322410046	46	FLORENCE
H9321280042	HANDS	128	KENTON		WILLIAMSTOWN	GRANT 41	H9321610041	41	DRY RIDGE
H9321280045	HANDS	128	KENTON		COVINGTON	HANDS 42	H9321280042	42	TAYLOR MILL
H9321520044	HEBRON	152	BOONE		COVINGTON HEBRON	HANDS 45	H9321280045	45	TAYLOR MILL
H9321520045	HEBRON	152	BOONE		HEBRON	HEBRON 44	H9321520044	44	HEBRON
H9320090042	KENTON	9	KENTON		LAKEVIEW	HEBRON 45 KENTON 42	H9321520045	45	HEBRON
H9320090044	KENTON	9	KENTON		LAKEVIEW	KENTON 42 KENTON 44	H9320090042	42	TAYLOR MILL
H9320090045	KENTON	9	KENTON		LAKEVIEW	KENTON 45	H9320090044 H9320090045	44 45	FT. WRIGHT
H9320090046	KENTON	9	KENTON		LAKEVIEW	KENTON 46	H9320090046	45 46	LATONIA
:H9321890041	LIMABURG	189	BOONE		LIMABURG	LIMABURG 41	H9321890041	40	LAKEVIEW HEBRON
H9322100041	OAKBROOK	210	BOONE		FLORENCE	OAKBROOK 41	H9322100041	41	
H9322100042	OAKBROOK	210	BOONE		FLORENCE	OAKBROOK 42	H9322100041		ALEXANDRIA FLORENCE
H9321990042	RICHWOOD	199	BOONE		RICHWOOD	RICHWOOD 42	H9321990042		RICHWOOD
H9321990043	RICHWOOD	199	BOONE		RICHWOOD	RICHWOOD 43	H9321990043	43	RICHWOOD
H9321340041	THOMAS MORE	134	BOONE		EDGEWOOD	THOMAS MORE 41	H9321340041		EDGEWOOD
H9321340042	THOMAS MORE	134	BOONE		EDGEWOOD	THOMAS MORE 42	H9321340042	42	EDGEWOOD
H9321250042	VERONA	125	KENTON		CRITTENDEN	VERONA 42	H9321250042		CRITTENDEN
H9322430041	VILLA	243	KENTON		EDGEWOOD	VILLA 41	H9322430041		CRESTVIEW HILLS
H9322430042	VILLA	243	KENTON		EDGEWOOD	VILLA 42	H9322430042		CRESTVIEW HILLS
H9323040041	WHITE TOWER	304	KENTON		INDEPENDENCE	WHITE TOWER 41	H9323040041		INDEPENDENCE
H9320590040 H9320590041	WILDER	59	KENTON		WLDER	WILDER 40	H9320590040		NEWPORT
H9320590041 H9320770042	WLDER YORK	59 77	KENTON		WILDER	WLDER 41	H9320590041	41	SOUTHGATE
	YORK	77 77	CAMPBELL		NEWPORT	YORK 42	H9320770042	42	NEWPORT
- 100201.10043	TORK _	"	CAMPBELL		NEWPORT	YORK 43	H9320770043	43	NEWPORT

Duke Energy Kentucky Reliability Report and Vegetation Management For Calendar Year 2015 Exhibit A Page 3 of 9

			CUSTOMER	DATE OF LAST CIRCUIT		Secretary and the second		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		A PROPERTY OF THE PARTY OF
CIRCUIT ROAD	CIRCUIT GENERAL AREA	TOTAL CIRCUIT LENGTH (miles)	COUNT FOR THIS CIRCUIT	TRIM (VEGETATION MANAGEMENT)	CIRCUIT 5-YEAR AVERAGE (SAIDI)	REPORTING YEAR (2015) SAIDI	DID SAIDI INCREASE IN 2015?	CIRCUIT 5-YEAR AVERAGE (SAIFI)	REPORTING YEAR (2015) SAIFI	DID SAIFI INCREASE IN 2015?
	Alexandria, Ross and Oneonta	28.63	1995	3/17/2014	115.203	165,663	YES	0.921	1.363	YES
	Covington	15.41	1848	11/2/2013	87.883	98.173		0.819	2.018	
	Covington	0.31	418		58.772	21.766		0.661	1.856	
	Covington	0.03	635	11/18/2013	46.305	229.146		0.432		
	Covington Park Hills	25.18	2364	9/27/2013	39.633	71.691	YES	0.300		
	Walton	35.12 60.9	2631 1492	7/2/2014	83.011	227.660		0.655		
	Elsmere	20.35	1818	10/19/2013 11/7/2014	126.428	176.828		2.047	1.347	NO
	Florence	2.69	55	11/7/2014	29.347 101.126	70.949 101.764	YES YES	0.320	0.699	YES
	Florence	8.9	620	10/11/2014	120.722	101.331	NO NO	0.732 0.786	0.855 1.005	
	Florence	22.36	1811	5/9/2015	115.364	74.882	NO	1.018		
	Grant's Lick	70.24	1637	12/19/2015	108.195	275.459		1.193	1.796	YES
	Grant's Lick	66.15	1906	4/7/2012	122.919	255.268	YES	1.119		YES
	Cold Springs	47.12	1077	3/17/2014	74.092	157.389	YES	0.683	1.514	YES
	Highland Heights	30.05	904	7/22/2014	122.616	154.373	YES	1.044	0.942	NO
	Taylorsport	43.88	417	10/17/2012	294.872	298.343	YES	3.009	2.374	
	Villa Hills	28.73	1622	10/17/2012	163.727	216.496	YES	2.093	0.816	NO
	Erlanger	11.5	320	12/19/2015	164.498	41.897	NO	1.234	1.825	YES
	Covington	13.36	1000	12/5/2013	58.067	108.619	. YES	1.232	1.187	NO
	Covington	7.73	968	12/5/2013	42.764	98.220	YES	0.918	1.143	YES
	Covington	20.93	2091	11/7/2014	29.156	82.416		0.600	- 1.311	YES
	Crescent Springs	23.47	1961	11/18/2013	111.586	198.100	YES	1.382	1.264	NO
	Ft. Mitchell	26.37	1645	12/6/2014	77.479	190.129	YES	0.906	2.497	YES
	Crittenden	45.64	1610	12/4/2013	89.250	109.467	YES	0.750	0.893	YES
	Crittenden	29.39	892	8/10/2013	94.476	471.395	YES	0.745	2.944	YES
	Dayton	9.27	1030	11/23/2015	26.330	73.513	YES	0.219	0.141	NO
	Dayton Dayton	19.39	1536	12/5/2015	18.243	35.605	YES	0.122	0.158	YES
	Taylor Mill	9.51 48.32	832	12/19/2015	37.354	66.742	YES	0.530	0.224	NO
	Florence	3.56	1964 19	2/8/2013	168.934	317.307	YES	2.805	3.199	YES
	Florence	5.21	41	3/21/2015 3/21/2015	17.840	78.737	YES	0.110	0.158	YES
	Dry Ridge	11.07	567	10/20/2012	10.112 88.940	25.366	YES	0.078	0.220	YES
	Dry Ridge	3.64	155	10/20/2012	95.314	244.280 226.484	YES YES	0.992 0.966	1.466	YES
	Florence Mall	2.43		Nothing to trim	176.620	283.500	YES	1.220	1.813	YES
	Florence	19.04	838	5/16/2015	56.136	103.593	YES	0.849	0.500 2.078	NO YES
	Florence	17.62	951	7/25/2015	119.507	100.277	NO	1.230	2.049	YES
	Dry Ridge	5.78	137	10/17/2012	134.401	200.642	YES	1.301	1.511	YES
	Taylor Mill	11.17	294	10/6/2012	9.891	46.929	YES	0.089	0.204	YES
	Taylor Mill	22.92	859	6/1/2013	57.425	76.437	YES	0.826	0.279	NO
	Park West International	3.79	24	Nothing to trim	251.216	33.292	NO	1.551	1.583	YES
	Hebron	17.32	445	5/17/2014	38.286	215.665	YES	1.223	5.382	YES
	Taylor Mill	19.99	956	5/18/2012	30.272	91.329	YES	0.249	0.259	YES
	Ft. Wright, Ft. Mitchell	35.43	2289	8/10/2013	60.966	197.431	YES	0.724	3.460	YES
	Ft. Wright, Latonia	26.79	2161	12/8/2015	38.880	62.944	YES	0.526	1.162	YES
	Edgewood and Fort Wright	18.87	669	8/10/2013	146.740	205.611	YES	1.285	3.052	YES
	Hebron	31.67	1376	12/13/2014	101.237	129.980	YES	1.430	1.167	NO
	Alexandria, Ross and Oneonta	15.1	649	10/19/2013	0.168	163.407	YES	0.001	0.972	YES
	Limaburg, Oakbrook and Burlingt	27.51	2268	10/19/2013	0.016	130.577	YES	0.000	0.556	YES
	Richwood	38.05	1917	11/12/2013	67.212	166.618	YES	0.536	0.845	YES
	Union	21.16	1211	11/22/2014	55.573	39.065	NO	0.441	0.919	YES
	Edgewood Edgewood	1.7	9	12/13/2014	4.622	103.000	YES	0.044	1.000	YES
	Edgewood Walton	9.41	436	11/22/2014	18.146	168.796	YES	0.215	1.060	YES
	Lakeside Park	28.42 21.66	733	10/26/2013	78.672	91.737	YES	0.494	1.034	YES
	Crestview Hills	16.57	1677 885	4/25/2014	57.934	42.902	NO	0.450	1.182	YES
	Independence, Taylor Mill	91.66		5/22/2014	57.547	55.951	NO	0.313	0.466	YES
	Newport	91.00	1755 769	4/13/2012 8/15/2015	229.121 40.815	379.599	YES	2.688	3.459	YES
	Southquite. Ft Thomas	22.5	1471	5/25/2012	147.626	222.442	YES	0.485	1.047	YES
	Newport	9.12	1028	11/7/2014	13.707	167.351 49.366	YES YES	1.617 0.104	1.063	NO YES

SUBSTATION - CIRCUIT	CIRCUIT NAME	CIRCUIT ID	OUTAGE CAUSE	PERCENT OF TOTAL OUTAGE MINUTES	CORRECTIVE ACTION PLAN
		Cincoli io			27.1% circuit customer minutes of interruption due to one outage coded as two events. A conductor was found
			Equipment failure	34.9589	burned. Conductor replaced, no further action necessary Two outages caused by lightning were responsible for 18.74% circuit customer rminutes of interruption. All
			Lightning strike	19.6149	damaged equipment was replaced. No further action necessary.
			Other Cause	8.8045	
ALEXANDRIA SOUTH - H9322050041	ALEXANDRIA SOUTH 41	H9322050041	Planned (IEEE) Public Accident	1.5459	
			Unknown Cause	10,7579	
			C. S.		13.33% circuit custome rminutes of interruption due to 3 outages when trees fell on power lines. All equipment
			Vegetation		repaired/replaced. No further actions necessary.
			Weather Wildlife	4.6919 0.2169	
		STERNING		100,000%	
					Two outages caused 95 94% of customer mirutes of interruption due to Equipment Failure. On 6/25/15 one event 11 10% of mirutes and was caused by a jumper failure on the transmission line serving Augustine Station. On 8/2 in a failure on a transmission line caused an outage responsible for 8 44% of customer mirutes of interruption. The
			Equipment failure	07 1266	causing the fault on the transmission line was fixed. As these two outages account for 95.94% of customer minutes
AUGUSTINE - H9320780042	AUGUSTINE 42	H9320780042	Other Cause	0.472%	interruption on this circuit and each piece of equipment has been fixed, there is no further corrective action needed
			Planned (IEEE)	1.331%	
			Public Accident Unknown Cause	0.210%	
			Wildlife	0.800%	
					[92,735% of customer minutes of interruption for this circuit were due to one event on 6/25/15 due to a jumper failur transmission line serving Augustine Station. As the transmission line was repaired, no further corrective action is
AUGUSTINE - H9320780043	AUGUSTINE 43	H9320780043	Equipment failure	92.735%	necessary.
			Other Cause	6.485%	
	BEAUX BUT DESCRIPTION		Unknown Cause	0.780%	
					Two outages coded as three events are responsible for 84% customer minutes of interruption on this circuit. On 57
			Equipment failure	85 373%	one event caused 10.61% of customer minutes of interruption and was caused by a jumper failure on the transmis serving Augustine Station. On 6/28/2015 a failure on a fransmission line caused an outage responsible for 73.39 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. As two outages account for 84% of customer minutes of interruption on this circuit and each piece of equipment has b fixed, there is no further corrective action needed.
AUGUSTINE - H9320780044	AUGUSTINE 44	H9320780044	Other Cause	0.386%	
			Planned (IEEE)	1.509%	
			Public Accident Unknown Cause	0.110%	
			Vegetation	3,599%	
			Wildlife	8,527%	
					Three outages coded as 100° events are responsible for 70° 30% or circuit customer minutes of interruption. Units/ event caused 6.33% of customer minutes of interruption and was caused by a jumper failure on the transmission lie serving Augustine Station. On 626/2015 a failure on a transmission line caused an outage responsible for 47.32% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was feed. On
		This population is a	Equipment failure	70 53040	12/29/15 a recloser failed causing 16.71% circuit customer minutes of interruption. As each piece of equipment ha fixed, there is no further corrective action needed.
AUGUSTINE - H9320780045	AUGUSTINE 45	H9320780045	Other Cause	0.979%	inted, there is no lighter corrective action needed.
			Planned (IEEE)	0.173%	
La Company			Public Accident	1.295%	
			Unknown Cause	15.787%	
			Wildlife		
			Wildlife	11.227%	
AUGUSTINE - H9320780046	. AUGUSTINE 46	H9320780046	Equipment failure Lightning strike Other Cause	72.569% 1.963% 1.393%	Three everts coded as four outages were responsible for 67.66% circuit customer minutes of interruption. On 6/28/6 event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission line serving Augustine Station. On 6/28/2015 a failure on a transmission line caused an outage responsible for 36.66% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was feed. On a feeder ext cable burned up and caused 25.83% customer minutes of interruption. This cable was replaced. As it three outages account for 97.66% of customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed.
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	72.569% 1.965%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6.0820215 a failure on a transmission line caused an outage responsible for 36.66% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder ext cable burned up and caused 25.63% customer minutes of interruption. This cable was replaced. As if three outages account for 57.66% of customer minutes of interruption on this circuit and each piece of equipment in
AUGUSTINE - H8320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE)	72.569% 1.963% 1.963% 1.795% 0.174% 0.312%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62620715 shallow on a transmission line caused an outage responsible for 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment to fixed, there is no further corrective action needed.
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	72.569% 1.963% 1.963% 1.795% 0.174% 0.312%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6262075 a failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% customer minutes of interruption. This cable was replaced. As three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed.
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	72.569% 1.963% 1.933% 1.795% 0.174% 0.312%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282015 a failure on a transmission line caused an outage responsible for 36.68 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. Or a feeder exit cable burned up and caused 25.83% customer minutes of interruption. This cable was replaced. As three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment. fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re-
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	72.569% 72.569% 1.963% 1.795% 0.174% 0.312% 21.617%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission is serving Augustine Station. On 62820715 a failure on a transmission line caused an outage responsible for 36.68 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. Or a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further action
AUGUSTINE - H8320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	72.569% 1.963% 1.933% 1.795% 0.174% 0.312%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 a failure on a transmission line caused an outage responsible for 36.65 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment 1 fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure	72.569% 72.569% 1.963% 1.939% 0.174% 0.312% 21.617% 0.026% 0.152%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission is serving Augustine Station. On 62820715 a failure on a transmission line caused an outage responsible for 36.68 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. Or a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further action
AUGUSTINE - H9320780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike	72.569% 1.963% 1.993% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 a failure on a transmission line caused an outage responsible for 36.65 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment 1 fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions
AUGUSTINE - H8329780046	1000000000	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause	72.569% 72.569% 1.963% 1.933% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.067% 4.426% 0.452%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 a failure on a transmission line caused an outage responsible for 36.65 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment 1 fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions
AUGUSTINE - H9320780046 BEAVER - H9320860042	1000000000		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE)	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.067% 4.428% 0.452% 0.366%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 shillure on a transmission line caused an outage responsible for 36.65 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85 % usutomer minutes of interruption on this circuit and each piece of equipment of fixed, there is no further corrective action needed. On 47/1/5, a tree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was re for 15.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46	H9320780046	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wridlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	72.569% 72.569% 1.963% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.067% 4.428% 0.452% 0.356% 85.387%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282075 is failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usustomer minutes of interruption in the scircuit and each piece of equipment if time outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 47/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widilife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.067% 4.428% 0.452% 0.366%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 shillure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83 vs. usationer minutes of interruption in the transmission line was fixed. On three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed. On 47/1/5, a tree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was re for 16.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wridlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	72.569% 72.569% 1.063% 1.193% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.428% 0.452% 0.366% 85.87% 0.718%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 shillure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83 vs. usationer minutes of interruption in the transmission line was fixed. On three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed. On 47/1/5, a tree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was re for 16.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	72.569% 72.569% 1.063% 1.193% 1.193% 0.174% 0.312% 0.026% 0.152% 0.067% 4.428% 0.4528 0.366% 85.887% 0.738% 1.055%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 shillure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83 vs. usationer minutes of interruption in the transmission line was fixed. On three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed. On 47/1/5, a tree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was re for 16.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdire Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	72.569% 72.569% 1.0639% 1.1939% 1.795% 0.174% 0.312% 0.067% 4.428% 0.452% 0.366% 85.887% 0.718% 1.055% 0.510%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission of serving Augustine Station. On 62820715 shilling on a transmission line caused an outage responsible for 36.6% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On seeder exit cable burned up and caused 25.83% usutomer minutes of interruption on this circuit and each piece of equipment fixed, there is no further corrective action needed. On 47/1/5, a tree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was refor 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widilfe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Unknown Cause Vegetation Weather Widilfe	72.569% 72.569% 1.963% 1.393% 1.795% 0.174% 0.312% 21.617% 0.026% 4.428% 0.452% 0.356% 85.387% 0.718% 0.955% 0.510% 6.976%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282075 is failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83 to sustomer minutes of interruption on the scircuit and each piece of aquipment if fixed, there is no further corrective action needed. On 47/115, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was re for 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. 81.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damag equipment repaired. No additional actions are necessary.
	AUGUSTINE 46		Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Unknown Cause Vegetation Weather Widdlife	72.569% 72.569% 1.963% 1.939% 1.795% 0.174% 0.312% 0.026% 0.152% 0.067% 4.428% 0.452% 0.718% 0.718% 0.510% 6.976%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282075 is failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usuformer minutes of interruption. This cable was replaced. As three outages account for 67.69% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 15.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. B1.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary.
BEAVER - H9320860042	AUGUSTINE 46 BEAVER 42	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife	72.569% 72.569% 1.0639% 1.1939% 1.1939% 0.174% 0.312% 0.067% 4.426% 0.452% 0.366% 85.87% 0.718% 1.055% 0.510% 6.976%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 628207515 salius on a transmission line caused an outsing responsible for 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit acide betwend up and caused 25.83% usustomer minutes of interruption in the stream size in the court of the stream of the
BEAVER - H9320860042	AUGUSTINE 46 BEAVER 42	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Unknown Cause Vegetation Weather Widdlife	72.569% 72.569% 1.963% 1.939% 1.795% 0.174% 0.312% 0.026% 0.152% 0.067% 4.428% 0.452% 0.718% 0.718% 0.510% 6.976%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission of serving Augustine Station. On 62820715 shilling on a transmission line caused an outsign responsible for 36.6% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 16.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further action necessary. B1 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary.
BEAVER - H9320860042	AUGUSTINE 46 BEAVER 42	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Windlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Unknown Tause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 0.026% 0.152% 0.067% 4.428% 0.366% 85.387% 0.718% 1.095% 0.510% 6.976% 53.017% 1.529%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62820715 shilling on a transmission line caused an outage responsible for 36.65 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usutomer minutes of interruption. This cable was replaced. As three outages account for 67.65% of customer minutes of interruption on this circuit and each piece of equipment 1 fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 15.76% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. B1.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary.
BEAVER - H9320850042	AUGUSTINE 46 BEAVER 42	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Unknown Cause Planned (IEEE) Unknown Cause Weather Wildlife	72.569% 72.569% 1.963% 1.193% 1.195% 0.174% 0.312% 0.057% 0.057% 4.425% 0.366% 85.387% 0.718% 1.055% 0.510% 6.976% 53.017% 1.529% 46.615% 0.823% 0.823% 0.055% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On Activities of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85% of customer minutes of interruption ince was fixed. On a feeder exit cable burned up and caused 25.85% of customer minutes of interruption on the interruption on the caused and each piece of equipment of fixed, there is no further corrective action needed. On 47715, a free fell from a hillside taking out a pole and a transformer. This outlage, coded as two events, was refor 15.76% customer minutes of interruption on this circuit. All flems were repaired/replaced and no further actions necessary. 81.74% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Windlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Windlife Equipment failure Unknown Cause Unknown Cause Unknown Cause Unknown Cause Planned (IEEE) Unknown Cause Planned (IEEE) Unknown Cause Weather Windlife	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.067% 4.426% 0.452% 0.366% 85.387% 0.718% 1.095% 0.510% 6.976% 46.615% 0.825% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282075 is failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% usustomer minutes of interruption line was fixed. On a feeder exit cable burned up and caused 25.83% usustomer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 47/15, a tiree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. On 47/15, a tiree fell from a hilliside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. 81.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.7.8% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary. Planned outages on transformers.
BEAVER - H9320860042	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Vegetation Weather Wildlife Equipment failure Uightning strike Equipment failure	72.569% 72.569% 1.963% 1.939% 1.795% 0.174% 0.9127% 0.026% 0.152% 0.067% 4.428% 0.4528% 0.510% 6.976% 53.017% 53.017% 1.579% 44.555% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On Activities of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85% of customer minutes of interruption ince was fixed. On a feeder exit cable burned up and caused 25.85% of customer minutes of interruption on the interruption on the caused and each piece of equipment of fixed, there is no further corrective action needed. On 47715, a free fell from a hillside taking out a pole and a transformer. This outlage, coded as two events, was refor 15.76% customer minutes of interruption on this circuit. All flems were repaired/replaced and no further actions necessary. 81.74% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Unknown Cause Vegetation Equipment failure Uightning strike Planned (IEEE) Equipment failure Lightning strike Planned (IEEE)	72.569% 72.569% 1.963% 1.939% 1.1939% 0.174% 0.3127% 0.026% 0.1527% 0.067% 4.428% 0.4528% 0.4528% 0.510% 6.976% 53.017% 1.579% 44.6155% 0.628% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On Acceptable 7.6 659 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85% customer minutes of interruption. This cable was replaced. As three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 47/15, a free fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Planned outages on transformers. Planned outages on transformers. 28.3% of circuit customer minutes of interruption (and 86.4% of equipment failures on this circuit) due to one outage for circuit customer minutes of interruption. All equipment was repaired. No further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Vegetation Weather Wildlife Equipment failure Uightning strike Equipment failure	72.569% 72.569% 1.963% 1.939% 1.1939% 0.174% 0.3127% 0.026% 0.1527% 0.067% 4.428% 0.4528% 0.4528% 0.510% 6.976% 53.017% 1.579% 44.6155% 0.628% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6282075 a failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% vosutomer minutes of interruption line was fixed. On a feeder exit cable burned up and caused 25.83% vosutomer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed On 47715, a free fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refore 15.73% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. 81.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. 81.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Planned outages on transformers. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment was repaired. No further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Vegetation Unknown Cause Unknown Cause Unknown Cause Unknown Cause Unknown Cause Ughtning strike Planned (IEEE) Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 0.1617% 0.026% 0.452% 0.056% 85.887% 0.718% 0.718% 1.095% 0.510% 6.976% 4.4615% 0.823% 0.000% 0.015% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On Acceptable 7.6 659 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85% customer minutes of interruption. This cable was replaced. As three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 47/15, a free fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Planned outages on transformers. Planned outages on transformers. 28.3% of circuit customer minutes of interruption (and 86.4% of equipment failures on this circuit) due to one outage for circuit customer minutes of interruption. All equipment was repaired. No further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widlife Equipment failure Lightning strike Other Cause Planned (IEEE) Planned (IEEE) Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Planned (IEEE) Linknown Cause Lightning strike Planned (IEEE) Unknown Cause Lightning strike Planned (IEEE) Unknown Cause Lightning strike Planned (IEEE) Unknown Cause	72.569% 72.569% 1.063% 1.1.93% 1.1.93% 1.795% 0.174% 0.312% 21.617% 0.026% 0.152% 0.428% 0.452% 0.366% 85.387% 0.718% 1.095% 0.510% 5.976% 5.976% 5.976% 0.020% 4.449% 4.455% 0.020% 4.449% 4.457% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On Acceptable 7.6 659 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.85% customer minutes of interruption. This cable was replaced. As three outages account for 67.66% of customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 47/15, a free fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Planned outages on transformers. Planned outages on transformers. 28.3% of circuit customer minutes of interruption (and 86.4% of equipment failures on this circuit) due to one outage for circuit customer minutes of interruption. All equipment was repaired. No further action is necessary. Planned outages on transformers.
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Vegetation Unknown Cause Unknown Cause Unknown Cause Unknown Cause Unknown Cause Ughtning strike Planned (IEEE) Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 0.1617% 0.026% 0.452% 0.056% 85.887% 0.718% 0.718% 1.095% 0.510% 6.976% 4.4615% 0.823% 0.000% 0.015% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6202075 a failure on a transmission line caused an oxigar esponsible of 36.695 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% customer minutes of interruption in the wash fixed. On the development of the country of the countr
BEAVER - H9320860042 BUFFINGTON - H9320670041	BEAVER 42 BUFFINGTON 41	H9320860042	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Weather Widdlife Equipment failure Lightning strike Planned (IEEE) Unknown Cause Unknown Cause Unknown Cause Unknown Cause Lightning strike Planned (IEEE) Unknown Cause Lightning strike Planned (IEEE) Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 0.067% 4.428% 0.366% 85.837% 0.738% 1.095% 0.510% 6.976% \$3.017% 1.529% 44.615% 0.000% 0.015% 0.000% 0.015% 0.000% 0.015% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 62282015 failure on a transmission line caused an outage responsible of 36.69 customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% customer minutes of interruption in was fixed. On the caused and caused 25.83% customer minutes of interruption on this circuit and each piece of equipment if fixed, there is no further corrective action needed. On 477/15, a tree fell from a hillistide taking out a pole and a transformer. This outage, coded as two events, was refor 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. On 477/15, a tree fell from a hillistide taking out a pole and a transformer. This outage, coded as two events, was refor 15.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. 81.24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damag equipment repaired. No additional actions are necessary. Planned outages on transformers. Three events caused 35.78% circuit customer minutes of interruption which were 64.7% of unplanned customer minutes of interruption. All equipment has been repaired/replaced and no further action is necessary. Planned outages on transformers. 28.3% of circuit customer minutes of interruption (and 85.4% of equipment failures on this circuit) due to one outage on 57/15 caused 48.24% of circuit customer minutes of interruption. All equipment we repaired. No further action is necessary. One outage on 57/15 caused 14.58% circuit customer minutes of interruption (and 99.99% of "unknown" failures), equipment was replaced and no further action is necessary.
BEAVER - H9320860042 BUFFINGTON - H9320670041 BUFFINGTON - H9320670043	BEAVER 42 BUFFINGTON 41 BUFFINGTON 43	H9320670041	Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Weather Widdlife Equipment failure Lightning strike Planned (IEEE) Unknown Cause Equipment failure Lightning strike Planned (IEEE) Unknown Cause	72.569% 72.569% 1.963% 1.963% 1.795% 0.174% 0.312% 0.067% 4.428% 0.366% 85.837% 0.738% 1.095% 0.510% 6.976% \$3.017% 1.529% 44.615% 0.000% 0.015% 0.000% 0.015% 0.000% 0.015% 0.000% 0.015%	event caused 5.17% of customer minutes of interruption and was caused by a jumper failure on the transmission in serving Augustine Station. On 6202075 is failure on a transmission line caused an oxage responsible of 36.66% customer minutes of interruption on this circuit. The issue causing the fault on the transmission line was fixed. On a feeder exit cable burned up and caused 25.83% customer minutes of interruption line was fixed. On a feeder exit cable burned up and caused 25.83% customer minutes of interruption on this circuit and each piece of equipment in fixed, there is no further corrective action needed. On 47/15. a free fell from a hillside taking out a pole and a transformer. This outage, coded as two events, was refor 16.78% customer minutes of interruption on this circuit. All items were repaired/replaced and no further actions necessary. BI 24% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. BI 74% of circuit customer minutes of interruption due to two vehicle accidents coded as five events. All damage equipment repaired. No additional actions are necessary. Planned outages on transformers. Planned outages on transformers. No further action is necessary. Planned outages on transformers. No further action is necessary. One outage due to lightness the septiment was repaired. No further action is necessary. One outage on 51/175 caused 14.58% circuit customer minutes of interruption (and 99.99% of funknown* failures).

		1	1		
		1	F- 1	100 100	81.94% circuit customer minutes of interruption were due to one outage caused by a pole failure on 5/6/15 coded as
			Equipment failure Other Cause	0.367	vents. The pole has been replaced. No further action is necessary.
			Planned (IEEE)	1.681	
BUFFINGTON - H9320670047	BUFFINGTON 47	H9320670047	Public Accident	4.425	
		2252200	Unknown Cause	4.059	
			Vegetation	2.478	
			Weather	0.8525	N
			Wildlife	3,938	K
	ELLINE SENERLENGE	N. S. C.			
			Equipment failure	5.517	
			Lightning strike	8.7719	
			Other Cause	0,0669	
			Planned (IEEE)	4.4155	
CLARYVILLE - H9321470041	CLARWALLE 44		Public Accident	1.7405	
CERRIVILLE - HB321470041	CLARYVILLE 41	H9321470041	200	7000000	One outage coded as two events on 10/24/15 caused 43.69% circuit customer minutes of interruption when a
			Unknown Cause	43.7489	transmission line had a fault near Claryville Station. No further action is necessary
		1	Vegetation	25 5050	One outage coded as three events on 11/9/15 caused 14.82% circuit customer minutes when a limb landed on a
			Weather	0.0009	and caught fire. All equipment has been repaired, no further action is necessary.
			Wildlife	0.1599	
				0.1337	
					One outage coded as two events on 10/24/15 caused 47.69% circuit customer minutes of interruption when a
			Equipment failure	61.9825	transmission line had a fault near Claryville Station. The fault was cleared and no further actions necessary.
			Lightning strike	4.0339	6
			Other Cause	0.1839	
CLARYVILLE - H9321470042	CLARYVILLE 42	V 100 00 1 100 00 101	Planned (IEEE)	2.0679	
CLARTVILLE - H9321470042	CLARTVILLE 42	H9321470042	Public Accident	0.0499	
			Unknown Cause	0.7379	
					One outside coursed 25 52W elseville outside control of Victoria
			Vegetation	30.25%	One outage caused 25.62% circuit customer minutes of interruption on 10/28/15 when a dead ash tree 35' outsi
			Weather	0.4319	pole line fell across the line. All equipment has been repaired/replaced and no further actions necessary.
			Wildlife	0.1609	
				V.2007	SWINDLESS AND LONGON DESIGNATION OF THE PROPERTY OF THE PROPER
					One outage due to a fuse on 5/26/15 caused 20.20% circuit customer minutes of interruption. All equipment
			Equipment failure	22.5049	repaired/replaced. No further action necessary.
			Lightning strike	6.1559	
			Other Cause	0.3509	
Taran Characteristic Contemporaries		20000000 MOCOCC	Planned (IEEE)	0.2839	
COLD SPRING - H9321320041	COLD SPRING 41	H9321320041			One vehicular accident on 10/19/15 caused 40.10% circuit customer minutes of interruption. No further actions
			Public Accident	40.1015	necessary.
			Unknown Cause	12.3309	
			Vegetation	4.944%	
			Weather	6,978%	
			Wildlife	6.355%	
					Two outages caused 18.82% customer minutes of interruption. One outage was due to an overhead jumper, the other
			Equipment failure	20.835%	an underground cable failure. In both cases, all equipment has been repaired/replaced. No further action necessary
			Other Cause	3.8819	
			Planned (IEEE)	18.5179	
COLD SPRING - H9321320049	COLD SPRING 49	H9321320049	Unknown Cause	0.0379	
		0.500,000,000,000			One outage coded as two events caused 20.23% circuit customer minutes of interruption on 5/27/15. All
			Vegetation	21.106%	
			Vegetation Weather	21.106%	equipment repaired/replaced. No further action necessary.
			Weather	0.000%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipme
				0.000%	equipment repaired/replaced. No further action necessary.
			Weather	0.000%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary.
			Weather Wildlife	0.000% 35.624%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of
			Weather	0.000% 35.624%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary.
	Market Market Company		Weather Wildlife Equipment failure	0.000% 35.624% 32.837%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage coased by a lighthing strike caused 37/13/45 circuit customer minutes on interruption. All equipment
			Weather Wildlife Equipment failure Lightning strike	0.000% 35.624% 32.837% 37.714%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
			Weather Wildlife Equipment failure Lightning strike Other Cause	0,000% 35,624% 32,837% 37,714% 0,332%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of lawy. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
CONSTANCE - H9329420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Gause Planned (IEE)	32.837% 37.714% 0.332% 0.425%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of lawy. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
CONSTANCE - H9320420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	35.624% 32.837% 37.714% 0.332% 0.425% 0.512%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
CONSTANCE - H9320420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Gause Planned (IEE)	32.837% 37.714% 0.332% 0.425%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lighthing strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
CONSTANCE - H9329420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause	0.000% 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 0.188%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipmen repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both
CONSTANCE - H9329420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.000% 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 0.188% 23.779%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of lawy. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary.
CONSTANCE - H9320420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.000h 35.624h 32.837h 37.714h 0.332h 0.512h 0.1889 23.7793 3.869h 3.869h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37/1/14% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary.
CONSTANCE - H9329420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.000% 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 0.188% 23.779%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary.
CONSTANCE - H9329420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.000h 35.624h 32.837h 37.714h 0.332h 0.512h 0.1889 23.7793 3.869h 3.869h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary.
CONSTANCE - H9320420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512% 0.186h 23.779h 3.869h 0.342h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of lawy. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground due to outages caused by underground cable failures. There is currently a program to repair/replace underground dable on this circuit.
CONSTANCE - H9320420041	CONSTANCE 41	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.188h 23.779h 3.869h 0.342h 32.613h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment of the outage of the pair/replace underground cable on this circuit.
CONSTANCE - H9329420041 CONSTANCE - H9329420042	CONSTANCE 41 CONSTANCE 42	H9320420041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.186h 23.779h 3.869h 0.342h 40.997h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Gause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.188h 23.779h 3.869h 0.342h 40.997h 4.766h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE)	0.000h 35.624h 32.637h 37.714h 0.332h 0.425h 0.512** 0.166** 3.669** 0.342** 40.997** 4.766** 21.1518**	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm resplaced. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause	0.000h 35.624h 32.837h 37.714h 37.714h 0.332*h 0.425h 0.512h 0.188*h 23.779% 3.869h 0.342*h 40.997% 4.766h 21.151% 0.888*h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lighthing strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE)	0.000h 35.624h 32.637h 37.714h 0.332h 0.425h 0.512** 0.166** 3.669** 0.342** 40.997** 4.766** 21.1518**	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lighthing strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause	0.000h 35.624h 32.837h 37.714h 37.714h 0.332*h 0.425h 0.512h 0.188*h 23.779% 3.869h 0.342*h 40.997% 4.766h 21.151% 0.888*h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment proposed in the contraction necessary. Planned outages - working on underground cable replacement/repair
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.3869h 0.342h 40.997h 4.766h 21.151h 0.3655h 0.108h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments are necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of laws. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment projects. No further action necessary. Planned outages - working on underground cable replacement/repair
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Gause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.3869h 0.342h 40.997h 4.766h 21.151h 0.3655h 0.108h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments have nepaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.85% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.95% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further action necessary.
		Y de la companya de l	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Uightning strike Other Cause Wildlife	0.000h 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 3.869% 0.342% 40.997% 4.766% 0.108% 40.994% 53.726%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments have nepaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.85% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.95% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further action necessary.
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Cother Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624h 32.837h 37.714h 0.3372h 0.4255h 0.512h 0.1867h 3.669h 23.7799h 4.766h 4.1176 40.997h 40.997h 4.766h 4.1176 40.994h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipmen repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary.
CONSTANCE - H9320420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Other Cause Unknown Cause Wildlife Other Cause Unknown Cause Wildlife Other Cause Planned (IEEE) Unknown Cause Wildlife Other Cause Planned (IEEE) Unknown Cause	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.385h 0.342h 40.997h 4.766h 21.151h 0.365h 0.108h 40.994h 40.994h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary. Planned outages - working on underground sable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. 47.44% circuit customer minutes of interruption caused by one outage coded as two events on 5/8/15 during a tepair to a transmission line at Hebron Station. No further actions necessary
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Cother Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624h 32.837h 37.714h 0.3372h 0.4255h 0.512h 0.1867h 3.669h 23.7799h 4.766h 4.1176 40.997h 40.997h 4.766h 4.1176 40.994h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary. Planned outages - working on underground sable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. 47.44% circuit customer minutes of interruption caused by one outage coded as two events on 5/8/15 during a tepair to a transmission line at Hebron Station. No further actions necessary
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624h 32.837h 37.714h 0.332h 0.425h 0.512h 0.385h 0.342h 40.997h 4.766h 21.151h 0.365h 0.108h 40.994h 40.994h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipmen repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. All equipment has been repaired/replaced. No further actions necessary.
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Vinknown Cause Wildlife Unknown Cause Planned (IEEE) Unknown Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 37.7144% 0.332% 0.425% 0.512% 0.342% 32.613% 40.997% 4.765% 0.108% 40.994% 41.17% 0.380% 0.380% 0.783%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage caused as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed in the failure of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. 47.44% circuit customer minutes of interruption caused by one outage coded as two events on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary.
CONSTANCE - H9329420042	CONSTANCE 42	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Equipment failure Equipment failure Equipment failure Equipment failure Equipment Cause Wildlife	0.000h 35.624h 32.837h 37.714h 0.332*h 0.425h 0.512h 0.512h 0.425h 3.869h 0.342h 40.997h 4.756h 21.151h 0.368h 0.108h 40.994h 41.177h 0.380h 0.380h 0.783h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipm has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipmen repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipm replaced. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. All equipment has been repaired/replaced. No further actions necessary.
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CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Lightning strike Other Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 0.332% 0.425% 0.332% 0.186% 3.659% 3.669% 0.342% 40.997% 4.766% 0.108% 40.994% 53.726% 4.117% 0.385% 0.783% 79.268% 0.3513%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed in the contract of the contract
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 0.342% 32.613% 40.997% 4.766% 4.766% 4.117% 0.385% 0.108% 4.117% 0.385% 0.785% 0.351% 0.795% 0.351% 0.351% 0.257%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed in the contract of the contract
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Equipment failure Equipment failure Unknown Cause Wildlife Equipment failure Unknown Cause Wildlife Equipment failure Unknown Cause Wildlife	0.000h 35.624h 32.837h 37.714h 37.714h 0.332h 0.425h 0.512h 0.512h 0.512h 0.342h 40.997h 4.766h 21.151h 0.368h 0.108h 40.994h 41.1776 4.11776 6.365h 0.108h 0.783h 0.783h 0.285h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments peace of the contraction of the
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 37.714% 0.332% 0.425% 0.512% 0.342% 32.613% 40.997% 4.766% 4.766% 4.117% 0.385% 0.108% 4.117% 0.385% 0.785% 0.351% 0.795% 0.351% 0.351% 0.257%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments peace of the contraction of the
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Unknown Cause Wildlife Equipment failure Unknown Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Wildlife Unknown Cause Villed (IEEE) Unknown Cause Villed (IEEEE) Unknown Cause Villed (IEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	0.000h 35.624h 32.837h 37.714h 37.714h 0.332h 0.425h 0.512h 0.512h 0.512h 0.342h 40.997h 4.766h 21.151h 0.368h 0.108h 40.994h 41.1776 4.11776 6.365h 0.108h 0.783h 0.783h 0.285h	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipmen repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired freplaced. No further actions necessary. One outage caused 35.35% circuit customer minutes of interruption when a transmission line insulator cracked is 2/25/15. All equipment has been replaced. No further actions necessary.
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unkliched Accident Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Equipment failure Uightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Uightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Vegetation Wildlife	0.000h 35.624% 32.837% 37.7144 0.332% 0.425% 0.512% 0.186% 23.779% 3.665% 0.342% 40.997% 4.766% 21.151% 0.385% 0.108% 40.998% 0.783% 0.783% 0.783% 0.793% 0.783% 0.783% 0.783% 0.783% 0.785% 0.088%	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments have nepaired/replaced. No further action is necessary. One outage coded as two events was responsible fpr 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught! All equipment has been repaired/replaced. No further actions necessary. One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught! All equipment has been repaired/replaced. No further actions necessary. One outage caused 35.35% circuit customer minutes of interruption when a transmission line insulator cracked of 2/25/15. All equipment has been replaced. No further actions necessary.
CONSTANCE - H9329420042 CONSTANCE - H9320420044 COVINGTON - H9322170041	CONSTANCE 42 CONSTANCE 44 COGINGTON 41	H9320420042 H9320420044 H9322170041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 0.332% 0.425% 0.332% 0.186% 23.779% 3.869% 0.342% 40.997% 4.766% 0.108% 40.994% 41.17% 0.365% 0.783% 0.78	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments have nepaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of two. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. One outage caused 37.26% circuit customer minutes of interruption when a transmission line insulator cracked of 2/25/15. All equipment has been replaced. No further actions necessary.
CONSTANCE - H9320420042 CONSTANCE - H9320420044	CONSTANCE 42 CONSTANCE 44	H9320420042	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Unknown Cause Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Uightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Unknown Cause Vegetation Wildlife	0.000h 35.624% 32.837% 32.837% 0.332% 0.425% 0.512% 0.342% 32.613% 40.997% 4.756% 0.108% 40.994% 4.117% 0.385% 0.365% 0.795% 0.365% 0.795% 0.7	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. One outage caused 37.26% circuit customer minutes of interruption when a transmission line insulator cracked of 2/25/15. All equipment has been replaced. No further actions necessary.
CONSTANCE - H9320420042 CONSTANCE - H9320420044 COVINGTON - H9322170041	CONSTANCE 42 CONSTANCE 44 COGINGTON 41	H9320420042 H9320420044 H9322170041	Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Unknown Cause Wildlife	0.000h 35.624% 32.837% 0.332% 0.425% 0.332% 0.186% 23.779% 3.869% 0.342% 40.997% 4.766% 0.108% 40.994% 41.17% 0.365% 0.783% 0.78	equipment repaired/replaced. No further action necessary. One outage coded as two events caused 32.87% circuit customer minutes of interruption on 8/8/15. All equipments has been repaired/replaced. No further action is necessary. One outage coded as two events was responsible for 30.86% circuit customer minutes on 5/1/15 when a span of wire came down in the right of way. All equipment replaced and no further action is necessary. One outage caused by a lightning strike caused 37.714% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 22.96% circuit customer minutes of interruption due to two outages. Vegetation removed from lines in both outages. No further action necessary. 16.5% circuit customer minutes of interruption due to outages caused by underground cable failures. There is currently a program to repair/replace underground cable on this circuit. One outage coded as two events on 8/3/15 caused 40.37% circuit customer minutes of interruption. All equipment placed. No further action necessary. Planned outages - working on underground cable replacement/repair One outage caused 35.35% circuit customer minutes of interruption on 10/27/15 when a capacitor bank caught All equipment has been repaired/replaced. No further actions necessary. One outage caused 37.26% circuit customer minutes of interruption when a transmission line insulator cracked of 2/25/15. All equipment has been replaced. No further actions necessary.

		1		T	One outage caused 62.15% circuit customer minutes of interruption when a transmission line insulator cracked of
	COVINGTON 43		Equipment failure	64.262	6 2/25/15. All equipment has been replaced. No further actions necessary.
COVINCTON HASSASSASSAS			Other Cause Planned (IEEE)	0.661 ⁴ 2.285 ⁴	
COVINGTON - H9322170043		H9322170043	Unknown Cause	0.6725	
				0.072	One outage on 4/21/15 caused 31.29% circuit customer minutes of interruption when a tree branch fell across ti
			Vegetation	31.2931	line. Branch was removed and no repairs were needed. No further action necessary.
THE RESERVE OF THE PARTY OF THE			Wildlife	0.8271	
			Equipment failure	5.0839	
			Other Cause	11.0349	
			Planned (IEEE)		Flanned outages - working on underground cable replacement/repair
CRESCENT - H9320700041	CRESCENT 41	H9320700041	Unknown Cause	7.9349	
					4.00074-30-00 -143 0-00-00-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1
			Vegetation	44 6469	One outage on 5/7/15 coded as 4 events caused 44.646% of circuit customer minutes of interruption when a tre-
			Wildlife	0.1955	45' from the pole line fell into the line. All equipment repaired, no further action is necessary.
			For instance & F. H		17.62% circuit customer minutes due to one outage on 6/21 when a recloser failed. Recloser removed from sen
			Equipment failure Other Cause	21.5809	No further action necessary.
			Planned (IEEE)	0.7235	
					One outage coded as 6 events caused 24.96% circuit customer minutes when a vehicle hit a pole on 12/31/15
CRESCENT - H9320700043	CRESCENT 43	H9320700043	Public Accident	24.9655	causing the pole to break. All equipment repaired/replaced. No further actions necessary.
			Unknown Cause	5.5949	
					One outage coded as two events on 6/21/15 caused 34.71% circuit customer minutes of interruption when a tre
			Vegetation	34.7325	40' from the pole line fell across the line breaking three poles. All equipment has been repaired/replaced. No further action necessary.
			Wildlife	0.8745	
	PROPERTY OF THE		WE SHELL WORK THE		
			Equipment failure Lightning strike	2.3659	
1			Other Cause	3.9655	
	¥.	1	Planned (IEEE)	0.1549	
CRITTENDEN - H9321240041					One outage coded as three events on 4/17/15, when a vehicle hit a pole, caused 46.44% circuit customer minut-
CRITTENDEN - H9321240041	CRITTENDEN 41	H9321240041	Public Accident		interruption. All equipment has been repaired/replaced. No further action necessary.
			Unknown Cause Vegetation	0.1199	
			Weather	0.3339	
				-	Two outages caused by wildlife were responsible for 22.75% circuit customer minutes of interruption. Wildlife
			Wildlife	29.2389	removed and damaged equipment replaced. No further action necessary.
			Equipment failure	66 3639	One outage coded as two events caused 61.03% circuit customer minutes when a cable failed just outside Crittenden Station on 10/5/15. The line has been repaired. No further action necessary.
			Lightning strike	0.253%	The me has been repaired. No lutilities action necessary.
			Other Cause	0.552%	
	CRITTENDEN 42		Planned (IEEE)	0.104%	
CRITTENDEN - H9321240042		H9321240042	Public Accident Unknown Cause	0.029%	
			Vegetation	0.213%	
				1.000	One outage coded as 4 events caused 31,48% circuit customer minutes on 12/23/15 when excessive straight line
- 1					winds blew the roof off a barn and the debris landed into a transmission line and Crittenden 42. Debris has been
			Weather	31.893%	cleared and no repairs needed. No further action necessary.
			Wildlife	0.110%	
		T T	Equipment failure	0.250%	
					One outage on 8/3/15 caused 88.698% circuit customer minutes of interruption. All equipment repaired. No
DAYTON - H9320760041	DAYTON 41	(introduced to	Lightning strike		further action necessary.
DATTON - H5525760041	DATION 41	H9320760041	Other Cause Unknown Cause	0.166% 8.018%	
			Vegetation	1.228%	
			Wildlife	1.640%	
				Co. Series to	
			Equipment failure	5:721%	
			Other Cause	85 6254	One outage on 2/14/15 caused 48.06% circuit customer minutes of interruption. All equipment has been reset, further actions necessary.
			Planned (IEEE)	3.010%	
DAYTON - H9320760042	DAYTON 42	H9320760042	Public Accident	1.342%	
			Unknown Cause	3.299%	
		,	Vegetation	1.759%	
		5	Wildlife	19 3/194	One outage caused 18.93% circuit customer minutes of interruption. Wildlife removed. No further action necessary.
				19,143%	
			Equipment failure	3.919%	
			Lightning strike	11.569%	
			Other Cause	0.893%	
	DAYTON 43		Planned (IEEE) Public Accident	2.053%	
DAYTON - H9320760043		H9320760043	Unknown Cause	2.244%	
			Vegetation	0.290%	
				Sec. of Con-	One outage on 9/5/15 due to weather (40mph winds during a thunderstorm) caused 78.662% circuit customer
			Weather Wildlife	78.662%	minutes of interruption. All damaged equipment replaced. No further action necessary.
		W-11	whatte	0.270%	
	- 1				One outage coded as five events on 7/6/15 caused 43.88% circuit customer minutes of interruption when a recip
	DECORSEY 41		Equipment failure	50.033%	
l'			Lightning strike	0.019%	
		H9322990041	Other Cause Planned (IEEE)	0.131%	
DECORSEY - H9322990041			Public Accident	1.624%	
			Unknown Cause	1.656%	
			Vegetation	0.071%	
			Manther	100000000000000000000000000000000000000	One outage coded as six events on 7/29/15 during a severe thundersform caused 41.09% circuit customer minut
,			Weather	44.388% 0.255%	of interruption. All equipment repaired/reset. No further actions necessary.
			widite	0.255%	
1					Towns all the state of the stat
1					two outlages, which each interrupted one customer, caused 91.04% circuit customer minutes of interruption. All
DIXIE - H9320890041	DIXIE 41	H9320890041	Equipment failure	91.043%	equipement repaired/replaced. No further action necessary.
DIXIE - H9320890041	DIXIE 41	H9320890041	Equipment failure Lightning strike	91.043% 8.957%	equipement repaired/replaced. No further action necessary.
DIXIE - H9320890041	DIXIE 41	H9320890041	Lightning strike	8.957%	equipement repaired/replaced. No further action necessary.
DIXIE - H9320890041 DIXIE - H9320890042	DIXIE 41	H9320890041		8.957%	Two outages, which each interrupted one customer, caused 91.04% circuit customer minutes of interruption. All equipement repaired/replaced. No further action necessary. Planned outage requested by customer One outage on 1/19/15 caused 11.538% circuit custotmer minutes of interruption. Fuse replaced. This was the

			Equipment failure	0.7949	
			Lightning strike Other Cause	0.211%	
DRY RIDGE - H9321090041			Planned (IEEE)	4.193%	
	DRY RIDGE 41	H9321090041	Unknown Cause	0.095%	
			Vegetation	4.036%	
					One outage on 12/23/15 during heavy thunderstorms and 35 mph winds caused a line to come down. This one outage caused 89.871% circuit customer minutes of interruption. The line was repaired, no further actions
			Weather	89.871%	necessary.
		T	Equipment failure	0.931%	
			Other Cause	0.236%	
DRY RIDGE - H9321090042	DRY RIDGE 42	H9321090042	Planned (IEEE)	10.526%	
		W	Weather		One outage on 12/23/15 during heavy thunderstorms and 35 mph winds caused a line to come down. This one outage caused 88.307% circuit customer minutes of interruption. The line was repaired, no further actions
			Weather	88.307%	necessary.
FLORENCE - H9322410043	FLORENCE 43	H9322410043	Equipment failure	100.000%	One outage caused by a broken fuse holder caused 100% circuit customer minutes of interruption. All equipme replaced. No further actions necessary.
					One outage on 4/19/15 caused 22.97% circuit customer minutes of interruption. The fuse was replaced at the ti
			Equipment failure	36.221%	of the outage. A program has been started to retrofit all transformers and install animal guards on this line.
			Lightning strike	1.456%	
	Name Control of the C	0000000101000000	Other Cause	8.209%	
FLORENCE - H9322410044	FLORENCE 44	H9322410044	Planned (IEEE)	0.872%	
					One outage on 2/23/15 due to a vehicular accident caused 23.91% circuit customer minutes of interruption. Po
			Public Accident		was replaced, no further actions necessary.
			Unknown Cause Vegetation	0.098%	
			Wildlife	12.117%	
				12.11/2	
					One outage on 2/4/15 coded as five events caused 94.28% circuit customer minutes of interruption when a faul
		1			occurred during a switching operation. The affected section of cable has been replaced. No further actions
FLORENCE - H9322410046	FLORENCE 46	H9322410046	Equipment failure	95.047%	necessary.
	PEONENCE 46	113022410046	Other Cause	0.208%	
			Planned (IEEE)	3.579%	
			Unknown Cause	1.066%	
				NO ELEVATOR	
		H9321610041		wines-	One outage on 12/23/15 during heavy thunderstorms caused 67.782% circuit customer minutes of interruption
GRANT - H9321610041	GRANT 41		Weather	67.782%	Cable was replaced and no further action is necessary.
			22.00.000	12050400	31.88% circuit customer minutes of interruption due to one outage caused by wildlife. Wildlife removed, no ful
			Wildlife	32.218%	action necessary.
			Unknown Cause	1.413%	
HANDS - H9321280042	HANDS 42		DIKNOWN Cause	1.415%	
	1000000		Vegetation	G9 E97W	One outage coded as two events on 7/19/15 caused 81.06% circuit customer minutes of interruption. Equipme repaired and tree trimmed. No further action necessary.
			regeration	30.30776	repaired and tree trimmed. No further action necessary.
			Equipment failure	11.578%	
			Equipment failure	11.578% 18.428%	
HANDS - H9321280045	HANDS 45	H9321280045	Equipment failure Lightning strike Planned (IEEE)	18.428%	
HANDS - H8321280045	HANDS 45	H9321280045	Lightning strike	18.428%	Planned outages - working on underground cable replacement/repair
HANDS - H8321280045	HANDS 45	H9321280045	Lightning strike	18.428% 43.477%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of
HANDS - H8321280045	HANDS 45	H9321280045	Lightning strike Planned (IEEE)	18.428% 43.477%	Planned outages - working on underground cable replacement/repair
HANDS - H9321280045 HEBRON - H9321520044			Lightning strike Planned (IEEE) Public Accident	18.428% 43.477% 26.416%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission.
	HANDS 45 HEBRON 44	H9321280045	Lightning strike Planned (IEEE)	18.428% 43.477% 26.416%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary.
			Lightning strike Planned (IEEE) Public Accident	18.428% 43.477% 26.416% 100.000%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary.
			Lightning strike Planned (EEE) Public Accident Loss of transmission/generation	18.428% 43.477% 26.416% 100.000%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit customer.
			Lightning strike Planned (IEEE) Public Accident	18.428% 43.477% 26.416% 100.000%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary.
			Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure	18.428% 43.477% 26.416% 100.000% 28.988%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/15/15 coded as two events caused 23.848% circuit customer minutes when a pole was struck by the struck of the
			Lightning strike Planned (EEE) Public Accident Loss of transmission/generation	18.428% 43.477% 26.416% 100.000% 28.988%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike	18.428% 43.477% 26.416% 100.000% 28.988% 21.848%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure	18.428% 43.477% 26.416% 100.000% 28.988% 21.848%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE)	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.388%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 0.388% 0.243%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.243% 5.645%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.243% 5.645% 1.034% 0.574%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.243% 5.645%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary.
HEBRON - H9321520044	HEBRON 44	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause	18.428% 43.477% 26.416% 100.000% 28.986% 21.848% 42.888% 0.243% 5.545% 0.574% 0.241%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck beightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line
HEBRON - H9321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 0.243% 5.645% 0.243% 0.2243% 0.2243% 0.2243% 0.2243%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation	18.428% 43.47% 26.416% 20.000% 27.45% 27.646% 27.888% 0.388% 0.245% 5.645% 0.574% 0.574% 0.241% 31.314%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H8321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause	18.428% 43.47% 26.416% 20.000% 27.45% 27.646% 27.888% 0.388% 0.245% 5.645% 0.574% 0.574% 0.241% 31.314%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck b lightning. All equipment repaired and pole replaced. No further action necessary. All 8.88% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H8321520044 HEBRON - H8321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation	18.428% 43.47% 26.416% 20.000% 27.45% 27.646% 27.888% 0.388% 0.245% 5.645% 0.574% 0.574% 0.241% 31.314%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H8321520044 HEBRON - H8321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Vegetation Wildlife	18.428% 43.477% 26.416% 100.000% 28.988% 21.846% 42.888% 0.388% 0.388% 0.545% 0.574% 0.241% 0.241%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H8321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Unknown Cause Vegetation Wildlife Equipment failure	18.428% 43.477% 26.416% 100.000% 28.986% 21.848% 0.243% 0.243% 0.243% 0.243% 1.034% 0.241% 15.65837%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H8321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Eguipment failure Other Cause	18.428% 43.477% 26.416% 20.000% 28.988% 21.848% 0.388% 0.388% 0.574% 0.574% 0.574% 0.574% 0.574% 0.574% 0.574% 0.575% 0.5	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Planned (IEEE) Planned (IEEE)	18.428% 43.477% 26.416% 27.7% 26.416% 27.7% 26.416% 27.888% 21.846% 0.388% 0.243% 5.545% 26.243% 0.574% 0.241% 27.243%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/27/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045	HEBRON 44 HEBRON 45	H9321520044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident	18.428% 43.477% 26.416% 100.000% 28.986% 21.848% 0.243% 5.545% 0.241% 31.314% 66.837% 1.008% 5.513% 4.426% 4.888%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.82% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilghtning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/3/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/12/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Planned (IEEE) Public Accident Unknown Cause	18.428% 143.477% 16.416% 100.000% 100.000% 100.000% 128.988% 121.846% 12.8888% 12.888% 12.88888% 12.88888% 12.88888% 12.88888% 12.88888% 12.88888% 12.88888% 12.88888% 12.88888% 12.888888% 12.88888% 12	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmisline at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/3/12/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident	18.428% 43.477% 26.416% 100.000% 28.986% 21.846% 42.888% 0.243% 0.574% 0.243% 31.314% 66.837% 4.426% 4.826%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck to lightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife	18.428% 43.477% 26.416% 20.000% 28.988% 42.888% 3.388% 3.314% 65.837% 24.24% 4.26% 4	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck to lighthing. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/3/15 caused by a squirrel on a transformer, caused 66,70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. All sequipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. While this feeder is on a self-one outage on 4/3/27/5 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-one outage on 4/3/27/5 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-one outage on 4/3/27/5 caused 27.73% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	18.428% 13.47% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 27.5% 26.416% 27.5% 26.416% 27.5%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife	18.428% 43.477% 26.416% 20.000% 28.988% 42.888% 3.388% 3.314% 65.837% 24.24% 4.26% 4	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	18.428% 43.477% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 27	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Gause Unknown Cause Vegetation Wildlife Equipment failure Other Gause Inknown Cause Vegetation Vegetation Vegetation Wildlife Equipment failure Other Gause Vegetation Vegetation Wildlife Equipment failure Other Gause Vegetation Wildlife Equipment failure Unknown Cause Vegetation Weather Wildlife	18.428% 43.477% 26.416% 100.000% 28.986% 21.848% 0.243% 0.243% 0.243% 1.034% 1.034% 1.034% 4.243% 4.243% 4.245% 4.888% 45.275% 28.432% 4.5275% 28.432% 1.353% 0.4405%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Vegetation Vegetation Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Equipment failure Unknown Cause	18.428% 43.477% 100.000% 100.000% 100.000% 100.000% 100.000% 128.988% 121.846% 12.8888% 12.8888% 12.8888% 12.8888% 12.8888% 12.888% 12	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wegetation Wegetation Wegetation Wildlife Equipment failure Unknown Cause Vegetation Wegetation Unknown Cause	18.428% 43.477% 26.416% 100.000% 28.986% 21.846% 42.888% 0.243% 0.574% 0.241% 31.314% 66.837% 4.269% 4.888% 4.269% 4.888% 4.275% 4.888% 4.275% 4.375% 4.476% 1.008% 4.476% 4.888% 4.5.275% 4.5.45% 4.5.275% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 1.5.35% 4.6.307% 4.6	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/1/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/2/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/2/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Vegetation Vegetation Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Equipment failure Unknown Cause	18.428% 43.477% 10.0000% 10.000% 10.000% 10.000% 10.000% 10.000% 10.000% 10.000% 10.00	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.888% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmi line at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/12/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wegetation Wegetation Wegetation Wegetation Unknown Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE)	18.428% 43.47% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 27.	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further action necessary. One outage on 8/3/15 coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20° and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Unknown Cause Vegetation Unknown Cause Planned (IEEE) Public Accident Lightning strike Other Cause Planned (IEEE) Public Accident	18.428% 43.477% 10.000% 10.000% 12.8988% 10.000% 10.000% 12.8988% 10.388% 10.34% 10.000% 10.00	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmissio line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit cust minutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 10/29/15 caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/12/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Unknown Cause Planned (IEEE) Public Accident Unknown Cause	18.428% 43.47% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 27.	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further action necessary. One outage on 8/3/15 coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20° and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H8321520044 HEBRON - H8321520045 KENTON - H8320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Unknown Cause Vegetation Unknown Cause Planned (IEEE) Public Accident Lightning strike Other Cause Planned (IEEE) Public Accident	18.428% 43.477% 10.000% 28.988% 42.888% 10.034% 10.034% 10.034% 10.034% 10.034% 10.034% 10.034% 10.034% 42.888% 45.275% 4.828% 45.275% 10.034% 10.034% 10.035% 10.034% 10.035%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/27/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H8321520044 HEBRON - H8321520045 KENTON - H8320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Vegetation Vegetation Vegetation Vegetation Vegetation Vegetation Unknown Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	18.428% 43.477% 100.000% 100.000% 100.000% 100.000% 100.000% 128.988% 103.8	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/27/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Lightning strike Other Cause Vegetation Unknown Cause Vegetation Unknown Cause Vegetation Unknown Cause Vegetation Lightning strike Lightning strike	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.388% 10.345% 0.241% 5.645% 0.241% 45.645% 42.848% 42.84% 42.84% 43.85% 43.114% 45.85% 45.275% 48.88% 45.275% 48.88% 45.275% 48.88% 45.275% 48.88% 47.1353% 48.88% 48.275% 48.88% 48.275% 48.88% 48.275% 48.88% 49.275% 49.206% 49.2	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in-on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck tightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmit line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/27/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Vegetation Wildlife	18.428% 43.47% 26.416% 27.5% 26.416% 27.5% 26.416% 27.5% 27.	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further action necessary. One outage on 8/3/15 coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20° and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 27.33% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Lightning strike Other Cause Vegetation Unknown Cause Vegetation Unknown Cause Vegetation Unknown Cause Vegetation Lightning strike Lightning strike	18.428% 43.477% 26.416% 100.000% 28.988% 21.848% 42.888% 0.388% 10.345% 0.241% 5.645% 0.241% 45.645% 42.848% 42.84% 42.84% 43.85% 43.114% 45.85% 45.275% 48.88% 45.275% 48.88% 45.275% 48.88% 45.275% 48.88% 47.1353% 48.88% 48.275% 48.88% 48.275% 48.88% 48.275% 48.88% 49.275% 49.206% 49.2	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in- on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further action necessary. One outage on 8/3/15 coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck beightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/2/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/2/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor; caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 71.33% circuit customer minutes of interruption.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042 KENTON - H9320090044	HEBRON 44 HEBRON 45 KENTON 42 KENTON 44	H9321520044 H9321520045 H9320090042 H9320090044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Vegetation Wildlife	18.428% 43.477% 10.000% 10.000% 12.988% 10.000% 12.898% 10.388% 10.343	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck be lightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/3/12/15, caused 29.55% circuit customer minutes of interruption. Vegetation no longer on line further action necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/27/15 caused 27.73% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 71.33% circuit customer minutes of interruption. equipment has been repaired/replaced. No further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042	HEBRON 44 HEBRON 45 KENTON 42	H9321520044 H9321520045 H9320090042	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife	18.428% 43.477% 10.000% 12.8988% 13.314% 65.837% 1.034% 1.034% 1.025% 1.025% 1.	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at referon Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck by lightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission at Hebron Station. No further actions necessary. One outage on 4/3/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. Afuse was replaced and the conductor repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 71.33% circuit customer minutes of interruption. equipment has been repaired/replaced. No further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042 KENTON - H9320090044	HEBRON 44 HEBRON 45 KENTON 42 KENTON 44	H9321520044 H9321520045 H9320090042 H9320090044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Unknown Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Vegetation Wildlife	18.428% 43.477% 26.416% 100.000% 28.988% 21.846% 42.888% 0.388% 0.388% 0.243% 5.545% 0.243% 5.545% 1.005% 4.269% 4.828% 4.269% 4.828% 1.555% 28.432% 1.555%	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at Hebron Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilightning. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/3/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and brook the conductor, caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 6/17/15, due to a dead tree 20' and up-hill from pole line which fell across the line and brook the conductor, caused 27.42% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 71.33% circuit customer minutes of interruption. equipment has been repaired/replaced. No further action necessary.
HEBRON - H9321520044 HEBRON - H9321520045 KENTON - H9320090042 KENTON - H9320090044	HEBRON 44 HEBRON 45 KENTON 42 KENTON 44	H9321520044 H9321520045 H9320090042 H9320090044	Lightning strike Planned (IEEE) Public Accident Loss of transmission/generation Equipment failure Lightning strike Loss of transmission/generation Planned (IEEE) Unknown Cause Vegetation Equipment failure Other Cause Vegetation Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Wildlife	18.428% 43.477% 100.000% 100.000% 100.000% 128.988% 100.0000% 100.000% 100.0000% 100.000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.0000% 100.00000% 100.0000% 100.0000% 100.0000% 100.000	Planned outages - working on underground cable replacement/repair One outage, due to a dig-in on 8/20/15, coded as two events caused 26.32% circuit customer minutes of interruption. All equipment repaired/replaced. No further action necessary. 100% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmission line at referon Station. No further actions necessary. One outage coded as two events on 8/24/15, due to a defective underground cable, caused 27.85% circuit custominutes of interruption. Cable replaced. No further action necessary. One outage on 8/3/15 coded as two events caused 21.848% circuit customer minutes when a pole was struck bilighthing. All equipment repaired and pole replaced. No further action necessary. 42.888% circuit customer minutes of interruption caused by one outage on 5/8/15 during a repair to a transmis line at Hebron Station. No further actions necessary. One outage on 4/3/15, caused by a squirrel on a transformer, caused 66.70% circuit customer minutes of interruption. All equipment repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. A fuse was replaced and the conductor repaired. No further actions necessary. One outage on 4/3/15, due to a dead tree 20' and up-hill from pole line which fell across the line and broke the conductor, caused 27.42% circuit customer minutes of interruption. While this feeder is on a self-healing team, the self-healing was disabled due to planned work. No further actions necessary. One outage on 6/17/15, due to a vehicle hitting a pole, caused 71.33% circuit customer minutes of interruption, equipment has been repaired/replaced. No further action necessary.

LIMABURG - H9321890041	LIMABURG 41	H9321890041	Equipment failure		One outage on 3/15/15, due to an underground cable failure, caused 90.82% circuit customer minutes of
			Lightning strike	97,2125	interruption. Cable was respliced, no further action necessary.
			Other Cause	0.1095	
			Planned (IEEE) Unknown Cause	2.3459	
		STATE OF THE PARTY	Oliknown Cadse	0.5107	
		H9322100041	Equipment failure	0.9169	
			Other Cause	0.5205	
			Planned (IEEE) Public Accident	0.0925	Planned outages - working on underground cable replacement/repair
OAKBROOK STA - H9322100041	OAKBROOK 41				One outage on 12/25/15 caused 12.57% circuit customer minutes of interruption. When the circuit was patrolli
		110001			for the cause of the outage, a recloser was found to have a burnt smell. Recloser has been replaced. No further
			Unknown Cause	12.8215	action necessary.
			Vegetation	34.6285	One outage coded as two events on 4/13/15 caused 34.628% circuit customer minutes of interruption when a tifeli across two phases.
			Weather	0.0625	
			CONTRACTOR OF THE PARTY OF THE	_	Doubles and a 15 mark III to a last the same and
			Equipment failure	28.3309	8 outages coded as 15 events. All outages were related to underground cable failures. There is currently a proj underway to replace cable on this circuit.
OAKBROOK STA - H9322100042			Other Cause	0.0875	
			Planned (IEEE) Public Accident	46.9031	Planned outages - working on underground cable replacement/repair
	OAKBROOK 42	H9322100042	Unknown Cause	0.0119	
			Vegetation	0.0295	
			Weather	0.4899	
			Wildlife	22 6059	One outage due to wildlife on 4/6/15 caused 22.695% circuit customer minutes of interruption. Fuse replaced, further action necessary.
				12.033	orther action necessary.
			Equipment failure	5.779%	
		1	Lightning strike Other Cause	1.269% 0.589%	
(C. A. 1870) (C. A. 1870)			Planned (IEEE)		Planned outages on transformers
RICHWOOD - H9321990042	RICHWOOD 42	H9321990042			One outage coded as two events cased 65.843% circuit customer minutes when a vehicle hit a pole on 10/8/15
			Public Accident	65.843%	causing the crossarm and braces to break. All equipment repaired. No further action necessary.
			Unknown Cause Vegetation	0.250%	
			Wildlife	0.288%	
					One outage on 8/18/15 caused 21.21% circuit customer minutes of interruption. Outage caused by a pad mour
			Equipment failure	25,602%	transformer which appears to have been hit with something. Transformer replaced, no further action necessar
			Lightning strike	2.520%	
RICHWOOD - H9321990043	RICHWOOD 43	H9321990043	Other Cause	0.581%	
130111000-113021333343	Alchwood 43	H9321990043	Planned (IEEE) Unknown Cause	4.029%	
				0.240%	One outage on 4/10/15 caused 66:407% circuit customer minutes of interruption. Winds from a storm appear
					have blown lines together causing a fault. Slack was removed from lines to prevent future outages from this ca
			Weather Wildlife	66.407% 0.721%	No further action necessary.
		CONTRACTOR OF THE PARTY.	Wildlife	0.721%	
THOMAS MORE - H9321340041	THOMAS MORE 41	H9321340041			
	The second second second		Equipment failure	100.000%	100% circuit customer minutes of interruption caused by one outage on 5/5/15 due to a transmission line failur
			T		One outage coded as three events caused 96.993% circuit customer minutes of interruption and was due to a
			Equipment failure		transmission line failure on 5/5/15.
THOMAS MORE - H9321340042	THOMAS MORE 42	H9321340042	Other Cause	0.075%	
			Unknown Cause Wildlife	0.030%	
			Equipment failure	3.110%	
			Lightning strike		
VEDONA HOTSTSTONES				2.366%	
VERONA - H9321250042	ALEBONIA AD		Other Cause Planned (IEEE)	0.413%	
	VERONA 42	H9321250042	Other Cause Planned (IEEE)		One outage on 12/22/15 caused 92.277% circuit customer minutes of interruption. Pole replaced. No further
	VERONA 42	H9321250042	Planned (IEEE) Public Accident	0.413% 0.851% 92.277%	One outage on 12/22/15 caused 92 277% circuit customer minutes of interruption. Pole replaced. No further action necessary.
	VERONA 42	H9321250042	Planned (IEEE) Public Accident Unknown Cause	0.413% 0.851% 92.277% 0.491%	One outage on 12/22/15 caused 92 277% circuit customer minutes of interruption. Pole replaced. No further action necessary.
	VERONA 42.	H9321250042	Planned (IEEE) Public Accident Unknown Cause Wildlife	0.413% 0.851% 92.277%	One outage on 12/22/15 caused 92 277% circuit customer minutes of interruption. Pole replaced. No further action necessary.
	VERONA 42.	H9321250042	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure	0.413% 0.851% 92.277% 0.491% 0.492%	One outage on 12/22/15 caused 92 277% circuit customer minutes of interruption. Pole replaced. No further action necessary.
	VERONA 42	H9321250042	Planned (IEEE) Public Accident Unknown Cause Wildlife	0.413% 0.851% 92.277% 0.491% 0.492%	action necessary.
	VERONA 42	H9321250042	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 0.998%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of
			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE)	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 0.998%	action necessary.
VILLA - H9322430041	VERONA 42 VILLA 41	H9321250042	Planned (IEEE) Public Accident Unknown Cause Widdire Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 0.998% 47.154% 2.575% 2.015%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of
VILLA - H8322430041			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% . 0.998% 47.154% 2.575% 2.075% 8.767%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of
VILLA - H9322430041			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of
VILLA - H9322430041			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 8/12/15. Wildlife removed. No further
VILLA - H9322430041			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary.
VILLA - H8322430041			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary.
	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 0.198% 0.198%	action necessary. One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further
VILLA - H8322430041 VILLA - H8322430042			Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Widdife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Widdife Equipment failure Other Cause Planned (IEEE)	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% . 0.996% 47.154% 2.575% 8.767% 3.564% 0.198% 25.833% 85.228% 4.657% 0.505%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
7017-112-20-2	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
7017-112-20-2	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Widdife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Other Cause Vegetation Equipment failure Other Cause Vegetation Equipment failure	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 485.228% 4.657% 0.505% 9.611%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
7017-112-20-2	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% -0.996% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
2012-1120-21	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Widdife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Cother Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 3.564% 0.198% 25.833% 46.577% 0.505% 9.611% 0.599% 0.265%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch
7017-112-20-2	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildife Equipment failure Other Cause Planned (IEEE) Wildiffe Equipment failure Other Cause Planned (IEEE) Wildiffe Other Cause Planned (IEEE) Planded (IEEE) Planned (IEEE)	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 0.599% 0.505% 9.611% 0.599% 0.262% 1.263% 1.0690%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary.
7017-112-20-2	VILLA 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611% 0.599% 0.262% 1.263% 1.263% 1.659%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildife Equipment failure Other Cause Planned (IEEE) Wildiffe Equipment failure Other Cause Planned (IEEE) Wildiffe Other Cause Planned (IEEE) Planded (IEEE) Planned (IEEE)	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 0.599% 0.505% 9.611% 0.599% 0.262% 1.263% 1.0690%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary.
VILLA - H8322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611% 0.599% 0.262% 1.263% 1.263% 1.659%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.88% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipmer repaired/replaced. No further, action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 3.564% 0.198% 25.833% 46.577% 0.505% 0.265% 0.1690% 54.677% 0.302%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipms repaired/replaced. No further action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Unknown Cause Vegetation Unknown Cause Vegetation Vegetation Vegetation Weather	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% -0.998% 47.154% 8.767% 3.564% 0.198% 25.833% 85.228% 4.657% 0.505%, 9.611% 0.059% 0.690% 54.677% 0.302%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipms repaired/replaced. No further action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 3.564% 0.198% 25.833% 46.577% 0.505% 0.265% 0.1690% 54.677% 0.302%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipms repaired/replaced. No further action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Unknown Cause Vegetation Unknown Cause Vegetation Vegetation Vegetation Weather	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% -0.998% 47.154% 8.767% 3.564% 0.198% 25.833% 85.228% 4.657% 0.505%, 9.611% 0.059% 0.690% 54.677% 0.302%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipms repaired/replaced. No further action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife	0.413% 0.851% 92.277% 0.492% 8.798% -0.998% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611% 0.599% 0.262% 1.263% 0.690% 54.677% 0.302%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 8/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipme repaired/replaced. No further action necessary. Two outage coded as 8 events caused 46.08% circuit customer minutes of interruption. Due to the outages, a strim was completed on this circuit to remove trees in danger of landing on the lines. No further action necessary. One outage coded as 8 we events caused 24.82% circuit customer minutes of interruption. Due to the outages, a strim was completed on this circuit to remove trees in danger of landing on the lines. No further action necessary.
VILLA - H9322430042	VILLA 41 VILLA 42	H9322430041 H9322430042 H9323040041	Planned (IEEE) Public Accident Unknown Cause Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Unknown Cause Planned (IEEE) Villdife Equipment failure Unknown Cause Planned (IEEE) Villdife Equipment failure Unknown Cause Vegetation Weather Wildlife	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% - 0.998% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611% 0.505% 9.611% 0.509% 0.262% 1.263% 0.690% 54.677% 0.302% 34.153% 7.984% 0.070%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipmer repaired/replaced. No further action necessary. Two outages due to vegetation caused 24.82% circuit customer minutes of interruption. Due to the outages, a strim was completed on this circuit to remove trees in danger of landing on the lines. No further action necessary. One outage coded as two events caused 97.30% circuit customer minutes of interruption when a pole was struction and cought fire on 4/3/15. Pole was carrying Wilder 40 and Wilder 41. Pole and all equipment replace lightning and caught fire on 4/3/15. Pole was carrying Wilder 40 and Wilder 41. Pole and all equipment replace
VILLA - H9322430042 WHITE TOWER - H9323040041	VILLA 41 VILLA 42 WHITE TOWER 41	H9322430041	Planned (IEEE) Public Accident Unknown Cause Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife Equipment failure Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Wildlife Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildlife	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% - 0.998% 47.154% 2.575% 2.015% 8.767% 3.564% 0.198% 25.833% 4.657% 0.505% 9.611% 0.505% 9.611% 0.509% 0.262% 1.263% 0.690% 54.677% 0.302% 34.153% 7.984% 0.070%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipme repaired/replaced. No further action necessary. Two outage coded as 8 events caused 46.08% circuit customer minutes of interruption. Due to the outages, a rim was completed on this circuit to remove trees in danger of landing on the lines. No further action necessary. One outage coded as 8 wo events caused 97.80% circuit customer minutes of interruption.
VILLA - H9322430042 WHITE TOWER - H9323040041	VILLA 41 VILLA 42 WHITE TOWER 41	H9322430041 H9322430042 H9323040041	Planned (IEEE) Public Accident Unknown Cause Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildiffe Equipment failure Other Cause Planned (IEEE) Wildiffe Equipment failure Other Cause Planned (IEEE) Wildiffe Lightning strike Other Cause Planned (IEEE) Public Accident Unknown Cause Vegetation Weather Wildiffe Equipment failure Lightning strike Other Cause Planned (IEEE)	0.413% 0.851% 92.277% 0.491% 0.492% 8.798% 47.154% 2.575% 2.015% 3.564% 0.198% 25.833% 46.657% 0.505% 0.262% 0.590% 54.677% 0.302% 41.53% 7.984% 0.070%	One outage on 9/24/15 due to human error during switching caused 40.78% circuit customer minutes of interruption. No further action necessary. One outage caused 25.83% circuit customer minutes of interruption on 6/12/15. Wildlife removed. No further action necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage caused 68.79% circuit customer minutes of interruption on 9/24/15 due to a faulty switch. Switch replaced. No further actions necessary. One outage coded as 8 events caused 46.08% circuit customer minutes of interruption on 7/18/15. All equipmer repaired/replaced. No further action necessary. Two outages due to vegetation caused 24.82% circuit customer minutes of interruption. Due to the outages, a strim was completed on this circuit to remove trees in danger of landing on the lines. No further action necessary. One outage coded as two events caused 97.30% circuit customer minutes of interruption when a pole was struction and cought fire on 4/3/15. Pole was carrying Wilder 40 and Wilder 41. Pole and all equipment replace lightning and caught fire on 4/3/15. Pole was carrying Wilder 40 and Wilder 41. Pole and all equipment replace

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WILDER - H9320590041		H9320590041	Equipment failure	5.565%	
	WILDER 41		Lightning strike		One outage coded as two events caused 86.821% circuit customer minutes of interruption when a pole was struck by lightning and caught fire on 4/3/15. Pole was carrying Wilder 40 and Wilder 41. Pole and all equipment replaced. No further action necessary.
			Other Cause	0.355%	
			Planned (IEEE)	0.125%	
			Unknown Cause	0.152%	
			Vegetation	6.972%	
THE RESERVE OF THE PARTY OF THE					
		H9320770042	Equipment failure	0.424%	
YORK - H8320770042	YORK 42		Lightning strike	40.333%	One outage due to lightning on 7/19/15 caused 40.333% circuit customer minutes. Equipment replaced. No furth action necessary.
			Other Cause	15.536%	
			Planned (IEEE)		One customer-requested planned outage responsible for 31.51% circuit customer minutes of interruption. Outage was requested. No further action necessary.
			Public Accident	0.556%	
			Unknown Cause	8.820%	
			Wildlife	1.862%	
YORK - H9320770043		H9320770043	Equipment failure	30.368%	One outage on 8/20/15 caused 30.31% circuit customer minutes of interruption. All equipment repaired. No further action necessary.
	YORK 43		Other Cause	1.595%	The state of the s
			Planned (IEEE)	43.152%	Planned outages on transformers
			Public Accident	0.311%	
			Unknown Cause	18.917%	
			Vegetation	0.508%	
			Wildlife	5.149%	

Duke Energy Kentucky's Vegetation Management Plan

Goals

Duke Energy's goals for its Vegetation Management Operations are to balance the need for reliable utility service with safe and cost-effective vegetation management practices that preserve our local communities' natural surroundings, aesthetics and the environment. Targeted herbicides provide one of the most cost-effective and environmentally friendly means of controlling undesirable vegetation.

Safety

Our goals are to work safely at all times to achieve a zero injury culture and to minimize the safety risk of vegetation and conductor contacts. Serious or fatal shocks can occur when working in trees near power lines. Duke Energy strives to minimize that risk by trimming properly in accordance with industry tree trimming safety standards.

Reliability

Duke Energy's electric service reliability, as measured by SAIFI and SAIDI, has improved in recent years due in part to our more rigorous tree trimming practices. Duke Energy strives to trim its Kentucky distribution circuits every four-and-one-half years and transmission every six years.

Tree Care Standards

Duke Energy requires its employees and contractors to prune trees in accordance with American National Standards Institute (ANSI) and National Arborist Association (NAA) standards. The relevant standards are ANSI Z133, Safety in Tree Trimming Operations, and ANSI A300, Safety in Tree Care Operations. These ANSI standards were developed in cooperation with the NAA. Additionally, Duke Energy follows the practices in Field <u>Guide for Qualified Line Clearance Tree Workers</u> by Dr. Alex L. Shigo, former head of the U.S. Forest Service. In rural areas, Duke Energy may authorize its contractors to use mechanized pruning equipment.

<u>Tree Trimming Specifications</u>

69KV and above Transmission Lines

- 15 feet clearance to the side from all conductors.
- 15 feet clearance below the lowest conductor.
- No overhanging/encroaching branches permitted.
- Trim to the previously established widths of our right-of-way and practice established beyond the 15 feet widths.

3 Phase Primary Lines

- 10 feet clearance to the side from all conductors.
- 10 feet clearance below the conductors.
- No overhanging/encroaching branches.

Single Phase and Two Phase Primary lines

- 10 feet clearance to the side from all conductors.
- 10 feet clearance below the conductors.
- Overhang: all live branches above the conductors shall be removed to a minimum height of 15 feet, and at a 45-degree angle. All dead and structurally weak branches overhanging any primary voltage wires shall be removed.
- Underneath the primary: 10 feet clearance from the conductors to the closest limbs beneath the phases.

Secondary Lines

- 5 feet clearance to the side from the secondary line.
- 5 feet clearance above and below the secondary line.

Services Lines

• 1 foot swing clearance from all service lines.

Brush/Wood Removal

- Circuit maintenance brush is removed, wood cut into movable pieces.
- Customer may request off-cycle maintenance in accordance with the clearance standards above brush and wood is customer's responsibility.
- Storm Work no brush or wood removal.

Customer Notification

- Duke Energy customers are notified of tree trimming being done on their property by door hanger cards.
- Duke Energy requires its contractors to contact local government officials prior to beginning work in the community.

Right Tree In The Right Place

• Duke Energy will cooperate in tree removal with local government officials as needed.

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Determination of Need to Perform Maintenance/Evaluation of Plan Effectiveness

Duke Energy regularly monitors its SAIFI and SAIDI measures. If SAIFI or SAIDI were to significantly decline, Duke Energy would evaluate whether to modify its vegetation management practices, including its right-of-way clearing cycle, in order to improve SAIFI and SAIDI performance. Duke Energy also monitors the performance of individual circuits. In an individual circuit has a significant number of outages, Duke Energy will perform off-cycle tree trimming as needed. Duke Energy also monitors industry tree trimming standards and modifies its tree trimming practices as necessary to meet or exceed industry standards.

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