

**KANSAS CITY POWER & LIGHT COMPANY**  
**STORM EVENT REPORT**  
**FOR JUNE 2, 2018**

Report to:

Kansas Corporation Commission

July 3, 2018

## **TABLE OF CONTENTS**

<b><u>CHAPTER TITLE</u></b>	<b><u>PAGE</u></b>
I. Introduction	3
II. List of Communities Affected in Kansas	4
III. Number of Customer Interruptions in Kansas	5
IV. Circuits Affected and Number of Interruptions on Each Circuit	6
V. System Damage	7
VI. Extent of the Interruptions	7

## **I) Introduction**

This report is submitted to the Kansas Corporation Commission (“Commission”) in compliance with the Electric Reliability Requirements, (“ERR”) Section 6, Parts A & B, under Docket No. 02-GIME-365-GIE.

Saturday morning, June 2, 2018, a storm hit Kansas City Power & Light Company’s (“KCP&L” or “Company”) service region. The storm swept through KCP&L’s territory with 70 mph wind gusts, heavy downpours and significant lightning. The storm resulted in a total of 17,014 Kansas customer interruptions.<sup>1</sup> The scope of this report focuses on Kansas incidents stemming from the identified storm event. The affected KCP&L Kansas service center facilities were Johnson County, Southland and South District.

At approximately 0430 hours on Saturday, June 2, 2018, a severe thunderstorm moved into KCP&L’s service territory impacting various KCP&L Kansas and Missouri certificated service areas. During this storm, the Kansas City area experienced heavy rains and up to 70 mph damaging winds, and significant lightning. KCP&L’s Kansas service territory experienced outages to 17,014 customers. All Kansas customer service interruptions from the storm front were restored by 0030 hours on Monday, June 4, 2018.

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<sup>1</sup> The number of “Customer Interruptions” does not reflect the number of unique customers affected. During a severe weather event a single customer can experience more than one interruption in service.

## II) List of Communities Affected in Kansas

The following is an alphabetical list of affected counties and cities within those counties:

### **Douglas County**

Baldwin City

### **Franklin County**

Lane

Ottawa

Pomona

Princeton

Wellsville

Williamsburg

### **Johnson County**

Edgerton

Fairway

Gardner

Leawood

Lenexa

Merriam

Mission

Mission Hills

New Century

Olathe

Overland Park

Prairie Village

Roeland Park

Shawnee

Stanley

Stilwell

Westwood

### **Leavenworth County**

Basehor

Kansas City

### **Linn County**

LaCygne

Linn Valley

Pleasanton

### **Miami County**

Bucyrus

Louisburg

Osawatomie

Paola

### **Osage County**

Lyndon

Osage City

Vassar

### **Wyandotte County**

Bonner Springs

Edwardsville

Kansas City

### III) Number of Customer Interruptions

In total, there were 17,014 KCP&L Kansas customer interruptions. The breakdown of individual **customer interruptions** by facility classes and by damage types are as follows:

<b>Facility Class</b>	<b>Customer Interruptions by Facility Class</b>	<b>% of Customer Interruptions by Facility Class</b>
Feeder	10,886	64.0%
Lateral	5,989	35.2%
Secondary & Service	139	0.8%
<b>Total</b>	<b>17,014</b>	<b>100.0%</b>

<b>Type of Damage</b>	<b>Customer Interruptions by Damage Type</b>	<b>% of Customer Interruptions by Damage Type</b>
Blown Fuse	978	5.8%
Failed Cables & Wires	12,366	72.7%
Failed Pole	1,716	10.0%
All Others	1,954	11.5%
<b>Total</b>	<b>17,014</b>	<b>100.0%</b>

**IV) Circuits Affected and Number of Customer Interruptions on Each Circuit**

<b>Circuit #</b>	<b>Customers Affected</b>	<b>Circuit #</b>	<b>Customers Affected</b>	<b>Circuit #</b>	<b>Customers Affected</b>
10512	5	12111	28	12112	1
12113	30	1212	9	1232	16
1234	53	12401	13	1241	31
1236	109	1283	446	12831	6
12834	25	1332	15	1333	74
2023	19	2911	100	31	194
3122	22	3143	40	3811	830
4112	5	4122	1	4142	1,561
47112	25	47313	1	4751	33
4752	167	4753	17	48021	191
4841	88	4844	221	4853	72
5	47	5021	11	5022	2,023
5023	21	5024	254	5031	57
5033	27	5041	86	5044	815
5051	144	5052	20	5053	68
5062	3	5063	658	5072	6
5073	171	5081	2,080	5082	108
5083	411	5112	6	618	74
6541	13	6811	42	6812	13
6821	101	6824	124	6831	151
6832	91	6833	45	6844	296
6852	24	6853	42	6854	23
6911	28	7323	27	7324	1
7611	1	8211	488	8222	51
8223	99	8241	2,075	9041	286
9125	100	9141	64	9153	1,263
9161	28				
				<b>Grand Total: 17,014</b>	

## V) System Damage

There were 158 KCP&L system outages as a result of the June 2, 2018 storm. The breakdown of **system outages** by facility level and by damage type are as follows:

Facility Level	Number of System Outages by Facility Level	% of System Outages by Facility Level
Feeder	21	13.3%
Lateral	119	75.3%
Secondary & Service	18	11.4%
<b>Total</b>	<b>158</b>	<b>100.0%</b>

Type of Damage	Number of System Outages by Damage Type	% of System Outages by Damage Type
Blown Fuse	25	15.7%
Failed Cables & Wires	90	57.2%
Failed Pole	6	3.8%
All Others	37	23.3%
<b>Total</b>	<b>158</b>	<b>100.0%</b>

The weather, heavy rain, strong winds and lightning were the major contributing factors to the outages. The storm conditions contributed to all outages representing 100% of the total outages.

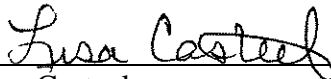
## VI) Extent of the Interruptions

KCP&L began receiving customer outage reports in the early morning hours (0430 hours) on Saturday, June 2, 2018. The storm caused 17,014 Kansas customer interruptions. At 0900 hours on June 2, 2018, 50% of the Kansas customer interruptions were restored. By 1200 hours on June 2, 2018, 75% of the Kansas customer interruptions were restored. By 1800 hours on June 2, 2018, 90% of the Kansas customer interruptions were restored. By 0030 hours on June 4, 2018, 100% of the Kansas customer interruptions were restored.

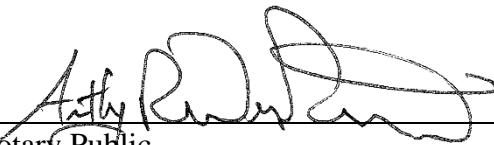
**VERIFICATION**

STATE OF MISSOURI     )  
                                      ) ss  
COUNTY OF JACKSON    )

The undersigned, Lisa Casteel, upon oath first duly sworn, states that she is the Lead Regulatory Analyst in Regulatory Affairs of Kansas City Power & Light Company, that she has reviewed the foregoing Storm Report, that she is familiar with the contents thereof, and that the statements contained therein are true and correct to the best of her knowledge and belief.

  
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Lisa Casteel  
Lead Regulatory Analyst, Regulatory Affairs  
Kansas City Power & Light Company

Subscribed and sworn to before me this 3<sup>rd</sup> day of July, 2018

  
\_\_\_\_\_  
Notary Public

My commission expires:

4/26/2021

