### **COMMONWEALTH OF KENTUCKY**

### **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

Electronic Investigation of the	)	
Service, Rates and Facilities of	)	Case No. 2021-00370
Kentucky Power Company	)	

### **REBUTTAL TESTIMONY OF**

### **STEPHEN D. BLANKENSHIP**

### ON BEHALF OF KENTUCKY POWER COMPANY

### REBUTTAL TESTIMONY OF STEPHEN D. BLANKENSHIP ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

### CASE NO. 2021-00370

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### **EXHIBITS**

<u>EXHIBIT</u>	DESCRIPTION
EXHIBIT SDB-R1	Map of Kentucky Power Service Territory
EXHIBIT SDB-R2	Map of Kentucky Vegetation Density

BLANKENSHIP-R1

### REBUTTAL TESTIMONY OF STEPHEN D. BLANKENSHIP ON BEHALF OF KENTUCKY POWER COMPANY BEFORE THE PUBLIC SERVICE COMMISSION OF KENTUCKY

CASE NO. 2021-00370

### I. INTRODUCTION

### 1 Q. PLEASE STATE YOUR NAME, BUSINESS ADDRESS AND POSITION.

A. My name is Stephen D. Blankenship. My business address is 12333 Kevin Avenue,
Ashland, Kentucky 41102. I am the Region Support Manager for Kentucky Power
Company ("Kentucky Power" or the "Company"). Kentucky Power Company is a
subsidiary of American Electric Power Company, Inc. ("AEP").

### II. BACKGROUND

### 6 Q. PLEASE SUMMARIZE YOUR EDUCATIONAL AND PROFESSIONAL 7 BACKGROUND.

8 A. I earned a bachelor's degree in Industrial Relations in 1995 from the West Virginia 9 Institute of Technology, and an associate degree in Electronics and Computer 10 Engineering Technology in 2019 from Grantham University. Throughout my 25-year 11 career, I have held positions of increasing responsibility within the AEP family of 12 companies, which have focused primarily on distribution operations. I began my 13 career in 1998 as a Customer Service Representative in Hurricane, WV for American 14 Electric Power Service Corporation ("AEPSC"), a subsidiary of AEP. From 2002 to 15 2016, I held distribution dispatching positions of increasing responsibility in 16 locations that included Ft. Wayne, Indiana; Columbus, Ohio; and Ashland, Kentucky. In 2016, I was promoted to Distribution Dispatch Supervisor for Kentucky Power. In 17

2019, I was promoted to Meter Revenue Operations Manager for Kentucky Power
 and in 2020, I was promoted to Region Support Manager.

### 3 Q. WHAT ARE YOUR RESPONSIBILITIES AS REGION SUPPORT 4 MANAGER?

5 A. I am responsible for the Company's distribution system operations, meter operations, 6 and storm review coordination. My duties also include the management of the safe 7 and reliable restoration of the Company's distribution facilities following disruptions, 8 proper implementation of normal and emergency procedures, and overall real time 9 operation of the Company's distribution system. I am also responsible for 10 coordination of the Company's storm response and Planning Section of the Incident 11 Command System ("ICS") when implemented.

### 12 Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THIS COMMISSION?

A. Yes. I testified before this Commission in Case No. 2020-00174 and Case No. 202300159.

### III. <u>PURPOSE OF TESTIMONY</u>

### 15 Q. WHAT IS THE PURPOSE OF YOUR TESTIMONY?

A. I will respond to Attorney General-Kentucky Industrial Utility Customers ("AG-KIUC") Witness Kollen's assertion that the Company has underinvested in the distribution system and that this has made the distribution system "more vulnerable to extensive damage from severe weather events." As I detail in my rebuttal testimony,
Kentucky Power has made appropriate investments in its distribution system, as confirmed by the Commission's recent decision finding the Company's restoration costs following Major Events to be prudent. Below, I will:

1		• Give an overview of the Company's service territory and the challenges it faces			
2		from damage caused by Major Events;			
3		• Describe the Major Events that the Company experienced from January of 2020			
4		through April of 2023, highlighting the severity of these storms;			
5		• Demonstrate that the severity of the Major Events themselves, coupled with			
6		impacts from trees outside of the rights-of-way, were the major causes of			
7		damage to the Company's distribution system; and			
8		• Show that absent three catastrophic and highly unusual Major Events,			
9		restoration costs for 2020 through April of 2023 have generally been			
10		comparable to historical averages.			
11	Q.	ARE YOU SPONSORING ANY EXHIBITS AS PART OF YOUR			
12		TESTIMONY?			
13	A.	Yes. I am sponsoring the following exhibits attached to my testimony:			
14		Exhibit Description			
15		EXHIBIT SDB-R1 Map of Kentucky Power Service Territory			
16		EXHIBIT SDB-R2 Map of Kentucky Vegetation Density			
		IV KENTLICKV DOWED DISTRIBUTION SYSTEM			
17	0.	PLEASE DESCRIBE KENTUCKY POWER'S SERVICE TERRITORY AND			
18	χ.	DISTRIBUTION SYSTEM.			
19	A.	Kentucky Power serves about 162.000 retail customers in Kentucky in a service area			
20		covering roughly 3.787 square miles and 20 counties. Kentucky Power's distribution			
21		system includes approximately 233 distribution circuits comprised of approximately			
22		9.919 miles of overhead distribution primary and secondary lines, and approximately			
		,			

189 miles of underground distribution primary and secondary lines. Kentucky Power's
 distribution system consists largely of long 34.5 kV and 12.47 kV circuits that average
 62.1 and 34.0 line miles, respectively. Kentucky Power's longest distribution circuit
 covers 173 overhead primary line miles.

- 5 Q. DESCRIBE THE OPERATING CHALLENGES THAT IMPACT KENTUCKY
  6 POWER'S DISTRIBUTION SYSTEM DURING A MAJOR EVENT.
- 7 A. The nature of Kentucky Power's service territory exacerbates the challenges the
  8 Company experiences during and after Major Events in four ways.

9 First, Kentucky Power's large service territory with low population density 10 naturally exposes customers to outages more than a densely populated service territory 11 would. With its rural area and long lines, the Company serves only about 16 customers 12 per distribution line mile. By contrast, the Company's Kentucky investor-owned utility 13 peers serve between 34 and 65 customers per distribution line mile. As a result, 14 Kentucky Power customers have significantly greater exposure to outages because it 15 takes much more line to serve them. This also presents greater opportunity for trees outside of the rights-of-way ("ROW") to fall on the lines serving the Company's 16 17 customers during Major Events.

18 Second, Kentucky Power's service territory consists of heavily forested and 19 mountainous terrain that includes steep, rocky, heavily forested hill sides and narrow 20 valleys. Because of the difficult topography and tree cover, when an outage occurs, it 21 can often take personnel hours to patrol the lines to find the problem, and potentially 22 longer to bring in the equipment necessary to correct it. Many of the circuits are not 23 accessible by vehicle, meaning that personnel must complete a foot patrol of the

BLANKENSHIP-R5

affected line section. In some cases, assessments can be expedited by air, which
 typically cannot occur until storm conditions relent. In other instances, such as the July
 28, 2022 Historic Flood Event, the Company had to wait until the flood waters receded
 before it could access its distribution facilities.

5 Third, approximately 75% of Kentucky Power's overhead primary miles are exposed to interruption due to trees outside and/or inside the ROW. The forests consist 6 7 of mostly large, mature trees that fall naturally over time, compounded by invasive 8 species of disease and insects. Due to their size and weight, these trees can cause severe 9 damage to the Company's distribution assets when they fall. In other instances, ice can 10 weigh down limbs, which can then make contact with the Company's facilities and cause outages. Exhibit SDB-R2 is a map showing the vegetation density in the 11 12 Company's service territory.

In recent years, outages caused by trees outside the ROW have increased because of rainfall exceeding the 30-year average. Excess rainfall contributes to the spread of insects, forest pathogens, and root disease, and also loosens the soil. Collectively, these factors destabilize root structures, making trees more susceptible to falling during wind events.

Fourth, the nature of the Company's distribution system limits Kentucky Power's ability to reduce outage durations while conducting restoration work. The Company has limited ability to transfer load to other sources because of limited capacity of step-up or step-down transformers feeding the normal open points or connection points. Kentucky Power also operates 39 circuits that have no three-phase connection to another circuit. As a result, in many cases, Kentucky Power cannot isolate faults and serve customers through alternative paths. Instead, customers often
 cannot be restored until the circuit is repaired.

### 3 Q. IS THE COMPANY TAKING STEPS TO REDUCE DISTRIBUTION 4 OUTAGES?

A. Absolutely. Recognizing the unique operating challenges of its service territory, the
Company has made and continues to make the necessary distribution system upgrades
to serve its customers and address the most prevalent outage causes on its system. In
doing so, the Company has targeted investments in mitigating outages related to
vegetation (both trees inside and outside ROW) and equipment failures.

10 For example, the Company has a trees inside ROW program that is a cycle-11 based maintenance program that completes vegetation clearing of all distribution 12 circuit ROW once every five years. The Company is in the fifth year of the current 13 five-year cycle and is approximately 60 miles ahead of target. Activities associated 14 with the program include ROW inspections, customer communications, brush 15 removal, trimming of trees, tree removals, certain herbicide applications, and postclearing audits and inspections. Since launching its trees inside ROW program in 16 17 June of 2010, customer minutes of interruption ("CMI") due to trees inside ROW 18 have decreased substantially: from 2010-2022, CMI related to trees inside ROW 19 outages has been reduced by approximately 83%.

The Company also seeks to mitigate outages caused by trees outside ROW, which are now the Company's principal cause of outages. In its 2018 Vegetation Management Plan, Kentucky Power established a program to widen the Company's existing ROW to address outside of ROW causes of outages, including the removal

1 of danger trees from outside the ROW. The Company began the program on a 2 provisional pilot basis in the Company's Hazard District and has seen reliability 3 improvements due to a reduction in customer minutes of interruption caused by trees 4 outside the ROW. At the end of 2022, the Company had completed portions of 5 targeted widening on 65 of the 233 distribution circuits, or 28% of the Company's distribution circuits. This targeted approach represents approximately 6.6% of the 6 7 Company's overhead primary distribution miles. Comparing the average for 2018-8 2020 versus 2020-2022, there was a 15% reduction in CMI on those circuits where 9 some widening was completed.

10 To reduce equipment failures, the Company has been analyzing equipment 11 failures using historical outage data to target investments and improve reliability. For 12 example, between 2008 and 2022, cutouts were the leading cause of equipment failures. 13 Based on a review of outage causes, the Company began a targeted cutout replacement 14 program, which has resulted in a reduction in CMI of 72% related to cutout-caused 15 outages.

## 16 Q. IN ADDITION TO THE COMPANY'S VEGETATION MANAGEMENT 17 PROGRAM, WHAT OTHER STEPS IS KENTUCKY POWER TAKING TO 18 REDUCE DISTRIBUTION OUTAGES?

A. Kentucky Power, where applicable (including new installations), is upgrading
 overhead distribution lines to heavy loading standards that meet National Electrical
 Safety Code ("NESC"). The 2023 NESC contains safety rules for overhead
 distribution lines, including detailed strength ("loading") requirements and clearance

rules for the support structures, such as poles and cross arms.<sup>1</sup> Section 250 in the
 2023 NESC describes the structural loadings for the United States. Figure SDB-R1
 below shows that the NESC requires medium loading in the Company's service
 territory.



#### Figure SDB-R1

5 In accordance with NESC requirements, the Company's overhead distribution 6 lines were initially built to medium loading standards. However, to improve 7 reliability, the Company has been upgrading its distribution facilities over the past 8 decade to heavy loading standards where feasible, enabling them to withstand up to 9 a half inch of ice.

<sup>&</sup>lt;sup>1</sup> Lawrence M. Slavin, "NESC® Requirements (Strength and Loading)," in Overhead Distribution Lines: Design and Applications, IEEE, 2021, pp.45-61, doi: 10.1002/9781119699170.ch6.

### V. MAJOR EVENTS' IMPACT ON KENTUCKY POWER'S SYSTEM

### 1 Q. WHAT ARE MAJOR EVENTS AND MAJOR EVENT DAYS?

A. "Major Events" are defined by IEEE 1366-2022, the "IEEE Guide for Electric Power
Distribution Reliability Indices," as any "event that exceeds reasonable design and or
operational limits of the electric power system." A Major Event includes at least one
Major Event Day, which is "a day in which the daily system SAIDI exceeds a threshold
value, T<sub>MED</sub>." The IEEE standard uses an accepted statistical approach to determine
when it is appropriate to exclude a major event.

### 8 Q. HAS KENTUCKY POWER BEEN EXPERIENCING A GROWING NUMBER

- 9 OF MAJOR EVENTS AND MAJOR EVENT DAYS?
- A. Yes. Figure SDB-R2 shows that over the last several years, Kentucky Power has
   experienced a trend of an increasing number of Major Events and Major Event Days
   as compared to the four preceding years (2016-2019).



### Figure SDB-R2

Between 2020 and 2023, Kentucky Power experienced 11 Major Events alone,
 several of which were historic in their severity. These 11 Major Events included 26
 Major Event Days. Collectively, these storms caused \$79.3 million in damage.
 Figure SDB-R3 summarizes the dates, type, and customer impacts of the Major
 Events.

		Total	
		Customers	
Major Event	Outages	Impacted	CMI
January 11, 2020 High Wind Storm	189	10,673	4,507,240
April 8-9, 2020 Thunderstorms	153	10,656	5,206,342
April 12, 2020 Straight-Line Wind Storm	909	72,459	200,900,139
December 24-25, 2020 Snow Storm	105	8,531	9,343,938
February 2021 Ice and Snow Storms			
(February 10, 15, and 17)	1,950	110,365	381,441,588
February 28, 2021 Major Flood Event	194	19,108	18,268,339
June 17, 2022 Thunderstorms and High			
Winds Event	437	27,794	28,828,056
July 28, 2022 Historic Flood Event	669	60,954	168,832,446
March 3, 2023 High Winds Event	349	28,049	21,744,501
March 25, 2023 High Winds Event	244	17,139	8,297,558
April, 2023 High Winds Event	516	35,318	32,241,177

#### **Figure SDB-R3**

# 6 Q. YOU INDICATED THAT SEVERAL OF THE MAJOR EVENTS BETWEEN 7 2020 AND 2023 WERE HISTORIC IN THEIR SEVERITY. CAN YOU 8 PLEASE ELABORATE ON THEM?

9 A. Three of the Major Events that occurred between 2020 and 2023 were among the
10 most significant weather challenges faced in the Company's recent history, both in
11 terms of the scope of the damage and the cost of restoration:

April 12, 2020 Straight-Line Wind Storm (the "Gravity Wave"). This storm,
 known as a meteorological "gravity wave," produced prolonged winds exceeding

140 mph and gusts as high as 79 mph. A gravity wave is a phenomenon where2strong winds of one to two hours' duration occur along with a rapid fall and rise3in surface pressure.<sup>2</sup> The sustained winds led to extensive damage across eastern4Kentucky, including downed trees, power lines, and structural damage. During5this Major Event, portions of 13 counties (out of 20) within the Company's6service territory were impacted. As many as 70,000 to 75,000 power outages7were reported across eastern Kentucky.

February 2021 Ice and Snow Storms – During these three winter storms,
 Kentucky Power's service territory was faced with up to one inch of ice
 accumulation and four to six inches of snow. Many roads became impassable due
 to downed trees and electrical lines, as well as ice and snow. During this Major
 Event, portions of 17 counties (out of 20) within the Company's service territory
 were impacted. These storms were so severe and destructive that Governor
 Beshear declared a State of Emergency across Kentucky on February 11, 2021.

July 28, 2022 Historic Flood Event - This event was a historic 1,000-year 15 16 probability flooding event that included heavy rain, deadly flash flooding, 17 mudslides, and landslides. Flash flooding is the most dangerous kind of flooding, 18 as it combines destructive power with incredible speed. There were times during this event that rainfall rates exceeded four inches an hour, with an estimated 14-19 20 16 inches of rainfall during the five-day event. Restoration crews faced serious 21 access issues as some roads and bridges were entirely washed away, flooded, or 22 blocked by debris. During this Major Event, portions of 6 counties (out of 20)

<sup>&</sup>lt;sup>2</sup> <u>https://www.weather.gov/jkl/041220 Gravity Wave</u> (last accessed February 15, 2024).

1		within the Company's service territory were impacted. Governor Beshear
2		declared a State of Emergency across Kentucky on July 28, 2022. The event led
3		to 39 deaths and widespread catastrophic damage.
4	Q.	WHAT HAS BEEN THE PRIMARY DRIVER OF OUTAGES DURING
5		RECENT MAJOR EVENTS?
6	A.	The nature of the damage varies with the type of a Major Event. Consider the following
7		Major Events during this period (2020-2023):
8		• During the April 2020 Gravity Wave, the sustained 40 mph and higher winds and
9		gusts as high as 79 mph felled numerous trees into the Company's distribution lines.
10		The combination of falling trees outside Company ROW and strong winds
11		damaging conductor and other equipment were responsible for approximately 97%
12		of the customer minutes of interruption during the event.
13		• During the February 2021 Ice and Snow Storms, ice accumulations of more than
14		one inch on parts of the Company's system exceeded even the NESC heavy
15		loading guidelines – the highest distribution structure strength requirements. The
16		Company could not have avoided outages even applying the highest industry
17		standard for hardening. Furthermore, the ice storm damaged countless trees
18		outside of Kentucky Power's ROW, leading to significant damage to the
19		Company's distribution facilities. No amount of hardening can protect the system
20		from falling trees. Additionally, ice weighed down limbs to the point where they
21		made contact with the Company's facilities and caused outages. The combination
22		of trees outside ROW and ice were responsible for approximately 94% of the
23		customer minutes of interruption experienced.

1 •	During the July 28, 2022 Historic Flood, floods, mudslides, and landslides in
2	some areas completely swept away some of the Company's distribution facilities
3	and uprooted many trees outside of ROW, which were then swept into the
4	Company's distribution facilities. As another example, the flood waters washed
5	away soil from the Company's distribution poles, completely exposing the base
6	of the poles. For a 40-foot pole, that equates to six feet of soil being completely
7	removed. In some instances, flood waters reached near the distribution pole's
8	system neutral. Again, even with NESC heavy loading, these types of outages
9	could not have been prevented. The combination of trees outside ROW and the
10	flood were responsible for approximately 95% of the customer minutes of
11	interruption the Company experienced.

### 12 Q. WHAT WERE THE COSTS OF THE MAJOR EVENT BETWEEN 2016 AND

13 **2019**?

### 14 A. The costs for Major Events for the period of 2016-2019 are summarized in Figure15 SDB-R4:

Year	Total Major Event Costs	Number of Major Events	Number of Major Event Days	Average Major Event Cost
2016	\$1,488,615	1	1	\$1,488,615
2017	\$4,675,503	3	3	\$1,558,501
2018	\$2,172,671	3	3	\$724,224
2019	\$1,625,661	1	1	\$1,625,661
2016-2019				
Totals	\$9,962,449	8	8	\$1,245,306

Figure SDB-R4

As Figure SDB-R4 shows, between 2016-2019, the Company experienced eight
Major Events that coincided with eight Major Event Days, with the average cost of

approximately \$1.24M per event. Although these storms qualified as Major Events,
 the scope of the damage was not sufficiently severe to require Kentucky Power to
 seek a regulatory deferral.

## 4 Q. WHAT COSTS DID THE COMPANY INCUR FOR MAJOR EVENTS 5 BETWEEN 2020-2023?

6 A. Figure SDB-R5 summarizes the actual costs of the Major Events incurred from 2020
7 through April of 2023.

Year	Total Major Event Costs	Number of Major Events	Number of Major Event Days	Average Major Event Cost
2020	\$21,803,537	4	6	\$5,450,884
2021	\$78,439,824	4	11	\$19,609,956
2022	\$25,365,212	2	6	\$12,682,606
2023	\$13,981,323	3	3	\$4,660,441
2020-2023				
Totals	\$139,589,896	13	26	\$10,737,684

### Figure SDB-R5

Although Figure SDB-R5 appears to show a significant increase in Major Event Costs, this figure is largely driven by the three historic storms that I described earlier in my testimony—the April 12, 2020 Gravity Wave; February 2021 Ice and Snow Storms; and the July 28, 2022 Historic Flood. Again, the scope of the damage and cost of the restoration for these storms were among the most significant in the Company's recent history. Figure SDB-R6 shows the costs of Major Events between 2020 and 2023 without these three historic events.

Year	Total Major Event Costs	Number of Major Events	Number of Major Event Days	Average Major Event Cost
2020	\$3,618,520	3	3	\$1,206,173
2021	\$2,006,759	1	3	\$2,006,759
2022	\$5,409,015	1	1	\$5,409,015
2023	\$13,981,323	3	3	\$4,660,441
2020-2023				
Totals	\$25,015,617	8	10	\$3,126,952

### **Figure SDB-R6**

1	Figure SDB-R6 shows that total Major Event costs went from approximately
2	\$139.6M down to approximately \$25.0M, once the April 12, 2020 Straight-Line
3	Wind Storm (\$18.2M), February 2021 Ice and Snow Storms (\$76.4M), and the July
4	28, 2022 Historic Flood Event (\$20.0M) are removed—a difference of approximately
5	of \$114.6M. Figure SDB-R7 summarizes the three historic Major Events.

### **Figure SDB-R7**

Year	Total Major Event Costs	Number of Major Events	Number of Major Event Days	Average Major Event Cost
2020	\$18,185,017	1	3	\$18,185,017
2021	\$76,433,065	3	8	\$76,433,065
2022	\$19,956,197	1	5	\$19,956,197
2020-2023				
Totals	\$114,574,279	5	16	\$38,191,426

### 6 Q. HOW DO 2015-2019 MAJOR EVENT COSTS COMPARE TO THE 2020-2023

### 7 **MAJOR EVENT COSTS?**

A. Figure SDB-R6 confirms that without the three extraordinary Major Events, average
storm event costs between 2020 and 2023 are in line with, though slightly higher,
than historical average Major Event costs, as the recent Major Events have been more
severe. Of course, there is still some variation year to year, but this is entirely

BLANKENSHIP-R16

1		expected because no two storms are the same. For example, the three Major Events
2		in 2018 caused comparatively less damage on average than the three Major Events in
3		2023.
4	Q.	HAS THE COMMISSION HAD AN OPPORTUNITY TO REVIEW THE
5		COMPANY'S MAJOR EVENT COSTS EXPERIENCED BETWEEN 2020
6		AND 2023?
7	A.	Yes. In the Commission's Financing Order in Case No. 2023-00159, the Commission
8		stated that:
9 10 11 12 13 14 15 16		The Tariff P.P.A. Under-Recovery Regulatory Asset represents an under recovery that Kentucky Power would be authorized to true-up pursuant to its purchase power adjustment tariff, and the storm damage expense regulatory assets are extraordinary expenses, beyond those included in base rates, that Kentucky Power incurred to recover from and repair its system following severe weather. Thus, the costs from which the regulatory assets in rates would be fair, just and reasonable in the absence of the proposed securitization. <sup>3</sup>
		VI. <u>CONCLUSION</u>
17	Q.	ARE ANY OF THE COMPANY'S STORM COSTS A RESULT OF
18		UNDERINVESTMENT IN THE COMPANY'S DISTRIBUTION SYSTEM?
19	A.	No. The damage sustained to the Company's distribution system during storms is in
20		no way attributable to the Company's level of distribution investment. As discussed
21		earlier in my testimony, Kentucky Power's service territory experienced particularly
22		severe Major Events over the last several years. While the Company's distribution
23		system was originally built to recommended NESC medium loading standards, the

<sup>&</sup>lt;sup>3</sup> See Financing Order at 48, In the Matter of: Electronic Application of Kentucky Power Company for (1) A General Adjustment of Its Rates For Electric Service; (2) Approval of Tariffs and Riders; (3) Approval of Accounting Practices to Establish Regulatory Assets and Liabilities; (4) A Securitization Financing Order; and (5) All Other Required Approvals and Relief, Case No. 2023-00159, (Ky. P.S.C. January 11, 2024).

1 Company has been upgrading to higher NESC heavy loading standards where 2 applicable. However, in the February 2021 Ice and Snow Storms, the ice was thicker 3 than even the thickness accommodated by heavy loading standards, and so still would 4 have caused considerable outages and damage even if the Company's entire 5 distribution system met NESC heavy loading standards. Additionally, trees outside of the Company's ROW can either fall, be blown, or weighed down into the 6 7 Company's distribution facilities during Major Events and cause outages. Despite 8 the Company's prudent investment in its distribution system, it was necessary for the 9 Company to incur the costs to restore service as safely and quickly as reasonably 10 possible after each of the Major Events described in this testimony-as the 11 Commission itself found in approving recovery of those costs.

12 Beyond this, Company Witness Shlatz's rebuttal testimony further 13 demonstrates that the damage to the Company's distribution system due to these 14 severe Major Events is not attributable to the Company's level of distribution 15 investment. Company Witness Shlatz has performed a benchmarking analysis that establishes that the Company's distribution investments and reliability performance 16 17 are comparable to a peer group of electric utilities. In fact, Company Witness Shlatz 18 concludes that the Company provides adequate, efficient, and reasonable service to 19 customers and confirms that the Company's reliability performance during both 20 normal weather and Major Events is consistent with the performance of peer utilities.

- 21 Q. DOES THIS CONCLUDE YOUR TESTIMONY?
- 22 A. Yes.





#### VERIFICATION

The undersigned, Stephen D. Blankenship, being duly sworn, deposes and says he is the Region Support Manager, for Kentucky Power, that he has personal knowledge of the matters set forth in the foregoing testimony and the information contained therein is true and correct to the best of his information, knowledge, and belief after reasonable inquiry.

Stephen D. Binkenship

Commonwealth of Kentucky County of Boyd

Case No. 2021-00370

Subscribed and sworn to before me, a Notary Public in and before said County and State, by <u>Stephen D. Blankenship</u>, on  $\overline{+12}$  DYWWY162024

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My Commission Expires May 5, 2027 Notary ID Number KYNP71841

MARILYN MICHELLE CALDWELL Notary Public Commonweaith of Kentucky Commission Number KYNP71841 My Commission Expires May 5, 2027