

Kentucky Power Company
KPSC Case No. 2022-00118
Commission Staff's First Set of Data Requests
Dated June 30, 2022

DATA REQUEST

KPSC 1_10 Refer to Koehler Testimony at 12, lines 3–9.

- a. Provide the expected useful life of the structures currently in place between the Wooten, Leslie, and Stinnett substations.
- b. Provide the ages(s) of the structures.
- c. Define “substantial structure failure.”
- d. State whether Kentucky Power has assessed the structures between the Wooten, Leslie, and Stinnett substations for relative risk of substantial structure failure, if so, provide the assessment(s).

RESPONSE

a. The expected useful life of wooden transmission line structures generally ranges between 35 and 75 years. See KPCO_R_KPSC_1_10_Attachment1 for AEP’s December 2019 presentation to PJM titled “AEP Eastern System Pre-1930s Era Lattice Tower and Transmission Line System.” Due to diversity in geographical location, operations, and structure variety for transmission line components, there is no single life span that is applicable to all facilities. Because of these varying environmental factors, individual line assets degrade at different rates. Individual assets are monitored through routine inspections.

b. Please see KPCO_R_KPSC_1_10_Attachment2 for the requested information.

c. Substantial structure failure refers to a transmission line structure falling on the ground or other structural failure causing the dropping of conductor.

d. Yes. Please see the Company’s response to KPSC 1-7. Any structure found to be in immediate need for replacement would be documented and scheduled for replacement.

July 13, 2022 Supplemental Response

d. Yes. Please see the Company’s response to KPSC 1-7. Any structure found to be in immediate need for replacement would be documented and scheduled for replacement (see KPCO_SR_KPSC_1_10_Attachment3).

Witness: Nicolas C. Koehler

NOMKV	Line_NAME	STRUCTURE_NUMBER	ITIS_ITIS_COMPONENT_LOOKUP_DESCRIPTION	ITIS_ITIS_CONDITION_LOOKUP_DESCRIPTION	ITIS_ITIS_COND_STATUS_LOOKUP_DESCRIPTION
161	Hazard - Pineville	K124-63	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-64	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-65	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-66	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-68	Pole	Damaged	Reported
161	Hazard - Pineville	K124-68	Pole	Damaged	Reported
161	Hazard - Pineville	K124-69	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-69	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-71	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-71	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-72	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-72	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-73	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-73	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-74	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-75	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-75	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-79	Pole	Damaged	Reported
161	Hazard - Pineville	K124-79	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-80	Pole	Damaged	Reported
161	Hazard - Pineville	K124-81	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-83	Ground Lead Wire	Broken	Reported
161	Hazard - Pineville	K124-84	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-84	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-84	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-85	Pole	Damaged	Reported
161	Hazard - Pineville	K124-85	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-85	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-85	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-85	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-86	Pole	Damaged	Reported
161	Hazard - Pineville	K124-86	Pole	Damaged	Reported
161	Hazard - Pineville	K124-86	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-86	Pole	Rot Shell	Reported
161	Hazard - Pineville	K124-86	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-87	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-87	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-87	Pole	Split	Reported
161	Hazard - Pineville	K124-88	Pole	Damaged	Reported
161	Hazard - Pineville	K124-88	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-88	Pole	Rot Shell	Reported
161	Hazard - Pineville	K124-88	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-88	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-89	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-90	Pole	Damaged	Reported

NOMKV	Line_NAME	STRUCTURE_NUMBER	ITIS_ITIS_COMPONENT_LOOKUP_DESCRIPTION	ITIS_ITIS_CONDITION_LOOKUP_DESCRIPTION	ITIS_ITIS_COND_STATUS_LOOKUP_DESCRIPTION
161	Hazard - Pineville	K124-90	Pole	Rot Shell	Reported
161	Hazard - Pineville	K124-90	Pole	Rot Shell	Reported
161	Hazard - Pineville	K124-64	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-66	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-69	Crossarm	Bowed	Reported
161	Hazard - Pineville	K124-70	Crossarm	Twisted	Reported
161	Hazard - Pineville	K124-71	Crossarm	Twisted	Reported
161	Hazard - Pineville	K124-73	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-74	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-74	Filler Block	Rot Top	Reported
161	Hazard - Pineville	K124-74	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-75	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-77	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-78	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-79	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-87	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-88	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-90	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-41	Guys	Loose	Reported
161	Hazard - Pineville	K124-41	Pole	Bowed	Reported
161	Hazard - Pineville	K124-41	Pole	Bowed	Reported
161	Hazard - Pineville	K124-42	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-44	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-44	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-45	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-45	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-46	Pole	Damaged	Reported
161	Hazard - Pineville	K124-46	Pole	Woodpecker	Reported
161	Hazard - Pineville	K124-47	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-48	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-50	Pole	Rot Shell	Reported
161	Hazard - Pineville	K124-51	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-51	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-53	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-54	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-55	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-56	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-56	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-58	Pole	Rot Top	Reported
161	Hazard - Pineville	K124-58	Pole	Rot Heart	Reported
161	Hazard - Pineville	K124-60	Pole	Rot Pocket	Reported
161	Hazard - Pineville	K124-41	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-41	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-42	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-42	Crossarm	Bowed	Reported

NOMKV	Line_NAME	STRUCTURE_NUMBER	ITIS_ITIS_COMPONENT_LOOKUP_DESCRIPTION	ITIS_ITIS_CONDITION_LOOKUP_DESCRIPTION	ITIS_ITIS_COND_STATUS_LOOKUP_DESCRIPTION
161	Hazard - Pineville	K124-43	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-44	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-45	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-46	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-47	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-48	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-49	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-50	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-51	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-51	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-52	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-54	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-55	Crossarm	Rot Top	Reported
161	Hazard - Pineville	K124-56	Crossarm	Insect Damage	Reported
161	Hazard - Pineville	K124-58	Crossarm	Insect Damage	Reported



Koehler W-S Discovery Verification.doc

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E-Signature Summary

E-Signature 1: Nicolas C Koehler (NCK)

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 nckoehler@aep.com (Principal) (Personally Known)

E-Signature Notary: Jennifer Young (JAY)

July 11, 2022 09:02:09 -8:00 [3D6D3030C1D5] [167.239.221.101]
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I, Jennifer Young, did witness the participants named above electronically sign this document.



