



April 15, 2024

Kansas Corporation Commission
1500 SW Arrowhead Rd.
Topeka, Kansas 66604-4027

RE: 24-EKCE-254-CPL Evergy Kansas Central, Inc and Evergy Kansas South, Inc. Compliance filing pursuant to Kansas House Bill 2225, K.S.A. 66-1237

To Whom it May Concern:

Evergy Kansas Central, Inc. and Evergy Kansas South, Inc. (collectively referred to herein as "Evergy Kansas Central") are submitting their Compliance Filing as required by Kansas House Bill 2225, K.S.A. 66-1237.

Per Statute, this Compliance Filing provides the following:

(1) For each non-blanket work order transmission project over \$15,000,000, or a different amount deemed necessary by the commission staff in consultation with the filing utility, an itemization of projected transmission spending for the succeeding calendar year and the second succeeding calendar year. The commission may expect a utility to provide more extensive details for transmission projects in the succeeding calendar year than for the second succeeding calendar year, but the utility shall provide as many details as reasonably possible for transmission projects in the second succeeding calendar year;

(2) for each transmission project:

- (A) A project identifier or name;
- (B) the anticipated in-service date;
- (C) the projected cost;
- (D) the specific location within the utility's system;



(E) whether the project is classified as a new build, rebuild, upgrade or any other appropriate classification;

(F) a description providing the purpose for the project and the anticipated reliability benefits;

(G) a description of the original vintage of the replaced facilities if the project is classified as a rebuild or upgrade; and

(H) the load additions or economic development benefits accommodated by the project, if any;

(3) a proposed date and time for:

(A) Representatives of the public utility to conduct a technical conference for the purpose of discussing the details of the compliance filing with commission staff, the citizens utility ratepayer board and other commission-authorized intervenors. Such technical conference shall be held not later than 90 days after the utility filed the compliance filing; and

(B) the commission to hold a public workshop in which representatives of the public utility shall present the details associated with the transmission projects that are anticipated in the succeeding calendar year. The public workshop shall allow for questions and comments from the commission, commission staff and other commission-authorized intervenors. The public workshop shall be held not later than 120 days after the utility filed the compliance filing.

The proposed date and time for the technical conference is July 9, 2024 at 2:00pm.

The proposed date and time for the public workshop is July 31, 2024 at 9:00am.

These documents contain confidential information related to transmission projects that might not be public information at this time. Therefore, Evergy Kansas Central is filing both a confidential and public version of this compliance filing.

In addition to the undersigned, all correspondence, pleadings, orders, decisions and communications regarding this proceeding should be sent to:

Lisa A. Starkebaum
Manager - Regulatory Affairs
Evergy, Inc.
1200 Main Street – 19th Floor
Kansas City, Missouri 64105



Phone: (816) 652-1277
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And

Leslie R. Wines
Senior Executive Administrative Assistant Evergy, Inc.
818 South Kansas Ave
Topeka, Kansas 66612
Phone: (785) 575-1584
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Sincerely,

A handwritten signature in black ink that reads 'Cathryn Dinges'.

Cathryn J. Dinges
Sr Director & Regulatory Affairs Counsel

Attorney for Evergy Kansas Central,
Inc. and Evergy Kansas South, Inc.

cc: Robin Allacher
Lisa Starkebaum

(a) Project Identifier or Name	(b) Anticipated ISD	(c) TFR Spend (Includes 34kV)	(d) Specific Location within Utility's System	(e) Project Type	(f) Purpose for Project and Reliability Benefits	(g) Original Vintage of Replaced Facilities	(h) Economic Development Benefits
██████████ 345/115kV New Substation & Transmission Lines (Related to ██████████)	██████████	\$ 82,376,024	Shawnee	New Build	Infrastructure needed to serve ██████████ and other load growth in the area. Evergy is working with SPP to finalize an NTC for this work.	n/a	Serves ██████████ and other load growth in the area.
██████████ 138kV Line Rebuild with 34kV Underbuild	██████████	\$ 65,432,008	Independence	Upgrade	Replacing line originally built in 1924. No shield wires exist on the line. NERC identified it as having one of the highest sustained outage frequency rates for lines 100-199 kV.	1924	n/a
██████████ 115kV New Substation, 87th St. - ██████████ 115kV Rebuild / Relocation (Related to ██████████)	██████████	\$ 49,812,231	Shawnee	New Build	Infrastructure needed to serve ██████████ and other load growth in the area. May be receiving NTC from SPP for project.	n/a	Serves ██████████ and other load growth in the area.
██████████ 161-69kV ██████████ Substation ██████████ & New 161kV Line (in and out)	██████████	\$ 31,512,802	Independence	New Build	New source into ██████████ area and replacement for ██████████ substation. If ██████████ 69kV source is lost, remaining transmission capacity is not sufficient to support area and ██████████ generation must run to support reliability.	1975	n/a
██████████ 161kV Rebuild	██████████	\$ 28,259,472	Pittsburg	Upgrade	Rebuilding sections of line due to age and condition to improve reliability. Unable to do energized maintenance work due to poor conductor condition.	1952	n/a
██████████ 69kV Line Rebuild	██████████	\$ 28,913,725	Pittsburg	Upgrade	Line was built in 1969 and has known maintenance issues due to underclass poles.	1969	n/a
██████████ 138-69kV Substation Rebuild	██████████	\$ 25,901,647	Independence	New Build	The substation was originally constructed in 1930 and still contains assets dating back to that time. The two 138/69kV transformers were installed in 1953 and are different sizes, which makes it infeasible to operate them in parallel. They will be replaced with a single, larger transformer which will resolve the issue.	1930	n/a
██████████ 138kV Conversion	██████████	\$ 23,525,284	Wichita	Upgrade	Converting the line to 138kV was identified in a long-term study performed for the ██████████ to reduce reliance upon 138/69kV transformers. Much of the equipment at the ██████████ has reached its end of life. Taking maintenance outages at the ██████████ 138kV substation is extremely difficult due to the bus layout and number of terminals and the ██████████ is of a design that is difficult to recover following a failure.	██████████ : 1955 ██████████ : 1951	n/a
██████████ 69kV Substation Rebuild	██████████	\$ 21,163,601	Independence	New Build	The existing substation is in a floodplain and has flooded twice in the last ten years. The site serves the ██████████ and the frequent flooding adversely affects Evergy's ability to serve them. The new substation location is out of the floodplain. As part of the new substation, additional distribution transformation will be added as well as an extension of the existing distribution line, which will improve the reliability to ██████████ and allow the retirement of the existing ██████████ substation.	1979	n/a
██████████ 115kV Substation Rebuild and ██████████ Voltage Conversion from 69kV to 115kV & 138kV	██████████	\$ 26,167,181	Hutchinson	Upgrade	The line provides a second feed into the ██████████ area, but cannot carry much power relative to the other lines around it. Due to its reliability and low capacity, it is operated normally open at the ██████████. The ██████████ is primarily served by two transmission sources on the north side: ██████████ 115kV and ██████████ 115kV. When either of these sources or adjacent lines have planned outages, a large amount of the ██████████ is put on a radial (single line). The ██████████ is also primarily served by two transmission sources: ██████████ 138kV and ██████████ 138kV. When either of these sources or adjacent lines have planned outages, additional lines or transformers need to be opened to reduce the opportunity for system issues (low voltage and/or line overloads). By rebuilding this line to a higher capacity and converting to a higher voltage, it will provide a strong source into both the ██████████.	1965	n/a
				Note:			
				Project Type according to definitions below:			
				New Build: Greenfield or expansion of existing infrastructure (substation expansion, for example).			
				Upgrade: Increase in ampacity of existing assets.			
				Rebuild: Like-for-like replacements.			