

Case: 00004836

Subject: 2025-ERAS Facility Studis

Description: Good morning,

I am taking this means to inform you that SPS will not be submitting a Facility Study Report for ERAS-2025-002 and ERAS-2025-014. ERAS-2025-002 is for Golden Spread Electric Cooperative's Elk Unit #4 to be connected at the SPS TUCO 345kV bus. The customer will share the gen-tie with Elk Unit #3 (GEN-2022-147) and no additional upgrades were needed for this request.

ERAS-2025-014 is utilizing the extra capacity available from the SPS Gaines County Power Plant thermal units (GEN-2020-065) and no additional upgrades were needed at the SPS Sidewinder 345 kV substation.

Thank you for your time and attention to this matter, please reach out to me if you have any questions.

Clif Smith

SPS Transmission Planning



Interconnection Facilities Study

Costs associated with ERAS-2025-001 Rebuild LaCygne-G20-047 Tap 345kV Line

April 2026

Introduction

This report summarizes the scope of the Interconnection Facilities Analysis for Network Upgrade(s) to determine costs related to the addition of the SPP-GI ERAS-2025-001 Interconnection Request(s). Evergy, as a TO, is receiving an unprecedented amount of GI interconnect requests. The cost estimates and interconnect information supplied are based on current system configuration. There are many cases of multiple GI's requesting POIs at the same substation. Ongoing changes in Evergy's transmission system configuration could affect the required system upgrades and costs necessary to meet any particular GI interconnect request in the future.

Southwest Power Pool Generation Interconnection Request:

Per the SPP Generator Interconnection Procedures (GIP), SPP has requested that Evergy perform an Interconnection Facilities Study (IFS) for Network Upgrade(s) in accordance with the Scope of Interconnection Facilities Study GIP Section 8.10 and the Interconnection Facilities Study Procedures in accordance with GIP Section 8.11 for the following Interconnection Request(s):

Upgrade Type	UID	Upgrade Name	ERAS Cost Estimate	ERAS Lead Time
Current Study	172059	LACYGNE7-G20-007-TAP 345 kV Ckt 1 Rebuild	\$ 8,143,803.00	48 months

Rebuild LaCygne-G20-007-TAP (Current Study)

345kV Substation

Network Upgrades to rebuild the LaCygne – G20-007 Tap 345 kV line. This line is to be double circuited with LaCygne – Neosho for 2.25 miles back to LaCygne. Estimate also includes upgrading traps, tuners, CCVTs and bus work at the LaCygne terminal. The line and terminal are to be rated for at least 1210 MVA. UID 172059

Total Cost

The total cost estimate for this Network Upgrade is:

\$	7,056,000	Transmission Line
\$	979,485	Substation
\$	22,247	AFUDC
\$	86,070	Contingency
\$	8,143,803	Total

This estimate is accurate to +/- twenty (20) percent, based on current prices, in accordance with Attachment A of Appendix 4 of the Interconnection Facilities Study Agreement. However, recent cost fluctuations in materials are very significant and the accuracy of this estimate at the time of actual settings cannot be assured.

Time Estimate

Time estimates are based on current version of the project schedule and some processes of each category run concurrently.

Engineering Time	48	Months
Procurement Time	48	Months
Construction Time	48	Months
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Total Project Length	48	Months

Figure 1 – LaCygne 345/69kV Substation

