Please find attached the Interconnection Facility Study (IFS) reports for the attached corrected request letter for ERAS-2025-001. Sunflower does not have any associated costs for ERAS-2025-033 Fort Dodge 115 kV Substation NU or TOIF, so there is not an IFS report attached.

Also, an updated Standardized Cost Estimate Report (SCERT) has been submitted via the Transmission Reporting and Communication (TRAC) tool for each UID as well.

Let me know if you need any additional information from Sunflower!

Sunflower does plan to invoice SPP for the facility study work.

Thank you,

Angie Anderson
Transmission Generation Interconnections and
Project Management Supervisor

Sunflower Electric Power Corporation
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Interconnection Facilities Study

Costs associated with ERAS-2025-001 Replace the existing SIBLEY 345/161kV transformer

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	DISIS Cost Estimate	DISIS Lead Time
Current Study	172063	Replace the SIBLEY 7 to SIBLEY 5 345kV Transformer 1	$ 13,571,142.00	48 months

Replace Sibley 345/161 kV Transformer (Current Study) (Evergy)

345/161kV Substation

Network Upgrades to replace the Sibley 345/161 kV Transformer 1. This estimate includes the replacement of the existing transformer with the standard MVA size accommodating the 510 MVA minimum rating. UID 172063

Total Cost

The total cost estimate for this Network Upgrade is:

$	0	Transmission Line
$	12,391,128	Substation
$	40,591	AFUDC
$	1,139,421	Contingency
$	13,571,142	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
Total Project Length	48	Months

Figure 1 – Sibley 345/161kV Substation