Southwest Power Pool

System Impact Study
SPP-2026-055

For Transmission Service
Requested By:
TNSK

From CSWS.EASTMAN to ERCOTE

For a Reserved Amount Of
50 MW

From 05/10/2026
To 05/12/2026

1. Executive Summary

TNSK has requested a system impact study for daily firm transmission service from CSWS.EASTMAN to ERCOTE. The transaction period is from 05/10/2026 00:00 to 05/12/2026 00:00. The reservation request is 109333643.

The 50 MW transaction from CSWS.EASTMAN has an impact on the following flowgates with no AFC: PITVALSUNHUG, PSOSWEPCOTIE, COPSTJCPFRSJ. To provide the AFC necessary for this transfer, the impact on the flowgates must be relieved.

After studying many scenarios using generation redispatch, there are several feasible scenarios that will relieve the flowgates in question.

2. Introduction

TNSK has requested a system impact study for transmission service from CSWS.EASTMAN to ERCOTE.

Three constrained flowgates require relief for this reservation to be accepted. The flowgates and their descriptions are as follows:

Flowgate	Description
PITVALSUNHUG	Pittsburg – Valiant 345 kV for the loss of Sunnyside – Hugo 345 kV
PSOSWEPCOTIE	PSO – SWEPCO Tie
COPSTJCPFRSJ	Cooper – St. Joe 345 kV for the loss of St. Joe to Fairport to Cooper 345 kV

3. Study Methodology

A. Description

Southwest Power Pool used Transmission Adequacy & Reliability Assessment (TARA) to obtain possible unit pairings that would relieve the constraint. TARA calculates impacts on monitored facilities for all units within the Southwest Power Pool Footprint. The SPP ATC Calculator is used to determine response factors for the time period of the reservation.

B. Model Updates

The 2026 Southwest Power Pool model was used for the study. This model was updated to reflect the most current information available.

C. Transfer Analysis

Using the short-term calculator, the limiting constraints for the transfer are identified. The response factor of the transfer on each constraint is also determined.

The product of the transfer amount and the response factor is the impact of a transfer on a limiting flowgate that must be relieved. With multiple flowgates affected by a transfer, relief of the largest impact may also provide relief of smaller impacts.

Using Transmission Adequacy & Reliability Assessment (TARA), specific generator pairs are chosen to reflect the units available for redispatch. The quotient of the amount of impact that must be relieved, and the generation sensitivity factor calculated by TARA is the amount of redispatch necessary to relieve the impact on the affected flowgate.

4. Study Results

After studying the impacts of the request, three flowgates require relief. The flowgates and associated amount of relief are as follows:

Table 1

Flowgate	Duration	Sensitivity (%)	Required Relief (MW)
5661:PITVALSUNHUG	5/10/2026 00:00 - 5/12/2026 00:00	26.89%	13.44
5578:PSOSWEPCOTIE	5/10/2026 00:00 - 5/12/2026 00:00	63.15%	31.57
5566:COPSTJCPFRSJ	5/10/2026 00:00 - 5/12/2026 00:00	5.38%	2.69

Table 2 displays a list of generator pairs that are possible relief options for each flowgate in question and the amount of redispatch capacity needed.

Table 2

5661:PITVALSUNHUG			
Increment	**Decrement**	**Sensitivity**	**MW**
TURKCOAL 3	SEMINL1G	43.40%	30.97
TURKCOAL 3	EGYCTR2G	34.94%	38.47
SIKESTON	SEMINL1G	14.67%	91.61

5578:PSOSWEPCOTIE			
Increment	**Decrement**	**Sensitivity**	**MW**
TURKCOAL 3	SEMINL1G	75.00%	42.09
TURKCOAL 3	EGYCTR2G	66.93%	47.17

5566:COPSTJCPFRSJ			
Increment	**Decrement**	**Sensitivity**	**MW**
LAKERD34 5	EGYCTR2G	40.08%	6.71
TURKCOAL 3	EGYCTR2G	16.13%	16.68

5. Conclusion

Generation redispatch options were studied to relieve the necessary constraints. The results of this study show that the constraints on the flowgates in question could be relieved by executing one or more of the options described in the Study Results section of this document.