



**SPP**

*Southwest  
Power Pool*

***System Impact Study  
SPP-2025-015  
For Transmission Service  
Requested By:  
TNSK***

***From CSWS.RSHSPRNGA to  
ERCOTN***

***For a Reserved Amount Of  
25 MW***

***From 07/01/2025  
To 06/01/2026***

## **1. Executive Summary**

TNSK has requested a system impact study for monthly firm transmission service from CSWS.RSHSPRNGA to ERCOTN. The period of the transaction is from 07/01/2025 00:00 to 06/01/2026 00:00. The request is for reservation 105501604.

The 25 MW transaction from CSWS.RSHSPRNGA has an impact on the following flowgate with no AFC: PSOSWEPCOTIE. To provide the AFC necessary for this transfer, the impact on this flowgate must be relieved.

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

## **2. Introduction**

TNSK has requested a system impact study for transmission service from CSWS.RSHSPRNGA to ERCOTN.

There is one constrained flowgate that requires relief for this reservation to be accepted. The flowgate and the explanation are as follows:

- PSOSWEPCOTIE: PSO – SWEPCO Tie

### **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 2025 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 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, one flowgate requires relief. The flowgate and associated amount of relief are as follows:

**Table 1**

Flowgate	Duration	Sensitivity (%)	Required Relief (MW)
5578:PSOSWEPCOTIE	12/1/2025 00:00 - 4/1/2026 00:00	3.04%	0.76

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**

5578:PSOSWEPCOTIE			
Increment	Decrement	Sensitivity	MW
TURKCOAL 3	COM2-1	75.33%	1.01
TURKCOAL 3	SEMINL1G	75.01%	1.01
TURKCOAL 3	ANADRK6	74.66%	1.02
1CROSSRDS G1	COM2-1	17.03%	4.46
1CROSSRDS G1	SEMINL1G	16.71%	4.55
1CROSSRDS G1	ANADRK6	16.36%	4.64
EDE_1PLUMPT	COM2-1	15.42%	4.93
EDE_1PLUMPT	SEMINL1G	15.10%	5.03
EDE_1PLUMPT	ANADRK6	14.75%	5.15

## **5. Conclusion**

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