



SPP

*Southwest
Power Pool*

***System Impact Study
SPP-2004-074
For Transmission Service
Requested By:
Calpine Energy Services L.P.***

From CSWS to OKGE

***For a Reserved Amount Of
110 MW
From 06/01/04
To 10/01/04***

SPP Transmission Planning

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1. Executive Summary

Calpine Energy Services L.P. has requested a system impact study for monthly firm transmission service from CSWS to OKGE. The period of the transaction is from 06/01/04 to 10/1/04. The request is for reservation 654513 for the amount of 110 MW.

The reservation will be accepted due to no constrained flowgates impacted by the reservation.

2. Introduction

Calpine Energy Services L.P. has requested a system impact study for transmission service from CSWS to OKGE.

There are no constrained flowgates that require relief in order for this reservation to be accepted.

3. Study Methodology

A. Description

Southwest Power Pool used the NERC Generator Sensitivity Factor (GSF) Viewer to obtain possible unit pairings that would relieve the constraint. The GSF viewer calculates impacts on monitored facilities for all units above 20MW in the Eastern Interconnection. The SPP ATC Calculator is used to determine response factors for the time period of the reservation.

B. Model Updates

The 2004 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 the NERC Generator Sensitivity Factor (GSF) Viewer, 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 the Viewer is the amount of redispatch necessary to relieve the impact on the affected flowgate.

4. Study Results

After studying the impacts of request 645643, no flowgates require relief.

5. Conclusion

The reservation will be accepted because there are no constrained flowgates that require relief.