



# **SPP** *Southwest Power Pool*

***System Impact Study SPP-2002-158  
For Transmission Service  
Requested By  
Cargill - Alliant***

***From GRDA to ERCOTN***

***For Reserved Amounts Of  
100MW from 11/1/2002 to 11/1/2003  
and  
150MW from 1/1/2003 to 1/1/2004***

***SPP Coordinated Planning***

## **1. Executive Summary**

Cargill - Alliant has requested a system impact study for long-term Firm Point-to-Point transmission service from GRDA to ERCOTN. The request is for reservations 395818, 395821, and 395824 for 150MW from 1/1/2003 to 1/1/2004 and reservations 395831 and 395833 for 100MW from 11/1/2002 to 11/1/2003.

The principal objective of this study is to identify system problems and potential system modifications necessary to facilitate the additional 250 MW transfer while maintaining system reliability.

Several previous studies have overloaded facilities within the SPP system, one of these being the La Cygne to Stilwell, La Cygne to West Gardner flowgate. The GRDA to ERCOTN transfer has a positive impact on the previously overloaded facility. There are no facility upgrades available to relieve this flowgate that can be completed in the time period available.

## **2. Study Results**

The SPP 2002 Series Cases 2002 Fall, 2002/03 Winter Peak, 2003 April Minimum, 2003 Spring Peak, 2003 Summer Peak, and 2003 Fall Peak were used to study the impact of the 100MW transfer on the SPP system during the requested service period of 11/1/02 to 11/1/03.

The study found that the requested service has a 2.9% response on the previously overload La Cygne to Stilwell 345kV line for the loss of the La Cygne to West Gardner 345kV line for the 2003 Summer months.

### **3. Conclusion**

The 250MW transfer from GRDA to ERCOTN increases loading on the La Cygne to Stilwell 345kV line. The ATC is zero for the GRDA to ERCOTN transfer due to the impact on this previously overloaded facility. The requests for service from GRDA to ERCOTN will be refused.