

# **TSR LGE-2015-014**

## **System Impact Study Report**

### **(TSR #81430440)**

**PROPRIETARY**

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## 1. Study Summary

TranServ has evaluated the Long-Term Firm Network Transmission Service Request (TSR) listed in Table 1-1. A System Impact Study (SIS) was performed only to determine the direct assignment facility needs and cost for this TSR.

**Table 1-1 Request Details**

Assign Ref	POR	POD	MW	TS Increment	TS Type	Request Type	Start Time	Stop Time	Q-Time
81430440	LGEE	LGEE	17	Yearly	Network	Original	2016-06-01 00:00:00 ES	2018-01-01 00:00:00 ES	2015-07-16 12:59:28 ES

This is not 17 MW of new customer load. It is the splitting of the load previously served from an existing delivery point.

For reliability purposes, a second distribution transformer will be added by the customer at the load bus. The new transformer will normally supply part of the existing substation load with the remaining continuing to be served from the existing transformer. The net change in load served from the 138 kV bus due to this request is 0 MW. Since there is no increase in this load, no network analysis was performed as part of the SIS by the Independent Transmission Operator (ITO). However, a study was performed by the Transmission Owner (TO) to determine the direct assignment facilities that are required for this TSR.

Because this is fast track TSR, no Ad Hoc Study Group was formed.

The granting of this request is not contingent upon any system upgrades or advancements. There are however direct assignment facilities required. The direct assignment facilities include the following:

- The construction of a new 138 kV bay at the new delivery point substation
- Associated terminal equipment at the new delivery point substation

The conceptual cost estimate for the direct assignment facilities is \$675,000 USD. The TO has determined that these facilities will be in place prior to the need date.

## **1.1 Conclusion**

No network analysis was performed as part of the SIS by the ITO. However, a study was performed by the TO and direct assignment facilities were identified. The total cost estimate for direct assignment facilities is \$675,000 USD. Because this study was performed under the SIS fast track procedure in accordance with LG&E/KU business practices, no Facility Study will be required due to the direct assignment facilities.