

# AFFECTED SYSTEM INTERCONNECTION FACILITIES STUDY REPORT

Western Area Power Administration Network Upgrade(s)

# J426

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By SPP Generator Interconnections Dept.

### **REVISION HISTORY**

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION	COMMENTS	
6/20/2017	SPP	Initial draft report issued.		

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### SUMMARY

#### **INTRODUCTION**

The Affected System Transmission Owner, Western Area Power Administration (WAPA), performed a detailed Affected System Interconnection Facilities Study (ASIFS) at the request of SPP for None-Shared Network Upgrade(s) assigned in the SPP Generator Interconnection Affected System Impact Study for Midcontinent Independent System Operator's (MISO) DPP-2015-FEB-West cluster. The scope of the IFS is defined in the Generator Interconnection Procedures (GIP) under Attachment V of the Southwest Power Pool (SPP) Open Access Transmission Tariff (OATT). Affected System Generator Interconnection Request(s) (ASGIs) that have cost allocation responsibilities for assigned Network Upgrade(s) will require the assigned Network Upgrade(s) to be in-service for full Interconnection Service. The request for interconnections on SPP's transmission system. Based on SPP Affected System for MISO DPP-2015-FEB-West results, the following Non-Network Upgrade(s) are needed:

• Pahoja – Sioux Falls 230kV Circuit #1

The primary objective of the IFS is to identify necessary Transmission Owner Interconnection Facilities, Network Upgrade(s), other direct assigned upgrade(s), and associated upgrade lead times needed to grant the requested Interconnection Service at the specified Point of Interconnection (POI).

#### AFFECTED SYSTEM GENERATOR INTERCONNECTION REQUEST(S)

The ASGI(s) assigned the Shared Network Upgrade(s) are listed in the corresponding **Tables 1**.

Table 1: Affected System Generator Interconnection Requests for Network Upgrade(s)

ASGI Request Number	Point of Interconnection (POI)	Capacity (MW)
J426	Chanarmbie Substation 34.5kV	100.00

#### NON-NETWORK UPGRADE(S) FACILITIES DESCRIPTIONS AND COSTS

**Table 2** lists Non-Network Upgrade(s) description, costs, and provides an estimated lead time for completion of construction. The estimated lead time begins when the Construction Agreement (CA) has been fully executed.

Non-Network Upgrade(s) Cost Allocation by each ASGI(s) responsibility is shown in the **Appendix A**.

## Table 2: Non-Network Upgrade(s)

TOIF and Non-Shared Network Upgrades Description	Allocated Cost Estimate (\$)	Estimated Lead Time
<b>Pahoja – Sioux Falls 230kV Circuit #1:</b> Review ratings and labor hours to assign a 30 minute summer emergency rating that would require a 1 degree C increase in conductor temperature. This would allow WAPA to properly document the calculations and revise the rating.	\$5,120	1 Month
Total	\$5,120	

All studies have been conducted assuming that higher-queued Interconnection Request(s) and the associated Network Upgrade(s) will be placed into service. If higher-queued Interconnection Request(s) withdraw from the queue, suspend or terminate service, the Affected System Interconnection Customer's share of costs may be revised. Restudies, conducted at the customer's expense, will determine the Affected System Interconnection Customer's revised allocation of Network Upgrades.

#### CONCLUSION

The Network Upgrade(s) listed in this Interconnection Facilities Study are required for full Interconnection Service for the ASGIs listed in **Table 1**. Interconnection Service will be delayed until the Non-Network Upgrade(s) listed in **Table 2** are constructed. The Non-Network Upgrades is summarized in the table below.

Description	Allocated Cost Estimate (\$)
Pahoja – Sioux Falls 230kV Circuit #1	\$5,120
Total	\$5,120

A draft CA will be provided to the Interconnection Customer consistent with the final results of this ASIFS report. The Affected System Transmission Owner and Interconnection Customer will have 60 days to negotiate the terms of the CA consistent with the SPP OATT.