Southwest Power Pool

Facility Study For Generation Interconnection Request GEN-2011-037

SPP Generation Interconnection

(#GEN-2011-037)

April 2012

Summary

The request for interconnection GEN-2011-037 (7 MW) was placed with Southwest Power Pool (SPP) in accordance with SPP's Open Access Transmission Tariff, which covers new generation interconnections on SPP's transmission system.

Interconnection Customer Interconnection Facilities

The Interconnection Customer will be responsible for the 138 kV transmission line from its collector substation to the point of interconnection (POI), the Blue Canyon V 138kV substation. In addition, the customer will be responsible for reactive power compensation equipment to maintain 95% lagging (providing vars) and 95% leading (absorbing vars) power factor at the point of interconnection.

Transmission Owner Interconnection Facilities and Non-Shared Network Upgrades

Per the following Facility Study, the Interconnection Customer is responsible for **$0** of Transmission Owner Interconnection Facilities and non-shared network upgrades.

Shared Network Upgrades

The interconnection customer was studied within the DISIS-2011-002 Impact Study. At this time, the Interconnection Customer is allocated $0 for shared network upgrades. If higher queued interconnection customers withdraw from the queue, suspend or terminate their GIA, restudies will have to be conducted to determine the Interconnection Customers' allocation of shared network upgrades. All studies have been conducted on the basis of higher queued interconnection requests and the upgrades associated with those higher queued interconnection requests being placed in service.

WESTERN FARMERS ELECTRIC COOPERATIVE

FACILITY STUDY

(REVISED)

For

Generation Interconnection Request 2011-037

6.6 MW Wind Generation Facilities

In Caddo County

Near

Apache, Ok.

April 5, 2012

SUMMARY

Pursuant to the tariff and at the request of the Southwest Power Pool (SPP), Western Farmers Electric Cooperative (WFEC) performed the following facility Study to satisfy the Facility Study agreement executed by the requesting customer for SPP Generation Interconnection request Gen-2011-037. The request for interconnection was placed with SPP in accordance with SPP's Open Access Transmission Tariff, which covers new generation interconnections on SPP's transmission system. The requirements for interconnection consist of no new facilities required.

See table 1 for estimated costs of construction.

INTRODUCTION

The Southwest Power Pool has requested a facility Study for the purpose of interconnecting approximately 6.6MW of wind generation within the service territory of WFEC in Caddo County, Oklahoma. The interconnect station is owned by WFEC and is in-service.

Power Flow analysis has indicated that for the power flow case studied, it is possible to interconnect the additional 6.6 MW of generation without any new transmission reinforcements within the local transmission system. Given the point of interconnection there are no additional requirements for interconnection including bus, breakers, switches, relaying, metering, etc.

See table 1 for estimated costs of construction. Other network constraints with OG&E or AEP should be verified with a transmission service request and associated studies.

INTERCONNECTION & TRANSMISSION FACILITIES

There are no new requirements for interconnection of the additional 6.6 Mw to Blue Canyon V

This facility study does not guarantee the availability of transmission service necessary to deliver additional generation to any specific point inside or outside of the SPP transmission system. The transmission network may not be adequate to deliver any additional generation output to the system. If the customer requests firm transmission service under the SPP open access transmission tariff at a future date, network upgrades or other new construction may be required to provide the service.

The costs of interconnecting to WFEC's facilities are listed in Table one below.

Facility	Estimated Cost (2010 Dollars)
N/A	$0
Total	$0

Table 1