



FACILITY STUDY

for

Generation Interconnect Request GEN-2022-098

200MW Solar Generating Facility
Johnston County
Oklahoma

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Summary

Pursuant to the tariff and at the request of the Southwest Power Pool (SPP), Oklahoma Gas and Electric (OG&E) performed the following Facility Study to satisfy the Facility Study Agreement executed by the requesting customer for SPP Generation Interconnection request GEN-2022-098. 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. GEN-2022-098 will share a gen tie with existing GEN-2017-075. The requirements for interconnection consist of network upgrades at OKGE Substation. The total cost for Network upgrades at OKGE Bison, is estimated at **\$30,000**.

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Introduction

The Southwest Power Pool has requested a Facility Study for the purpose of interconnecting a Solar generating facility within the service territory of OG&E Electric Services (OKGE) in Johnston County, Oklahoma. The proposed 345kV point of interconnection is at Bison Substation in Johnston County. This substation is owned by OKGE. The cost for network upgrades at Bison Substation is estimated at **\$30,000.**

Interconnection Facilities

The primary objective of this study is to identify attachment facilities. The requirements for interconnection consist of network upgrades in OKGE Substation. The total cost for OKGE to add network upgrades at Bison substation is estimated at **\$30,000**.

This Facility Study does not guarantee the availability of transmission service necessary to deliver the additional generation to any specific point inside or outside the Southwest Power Pool (SPP) transmission system. The transmission network facilities may not be adequate to deliver the additional generation output to the transmission 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 requested under the SPP OATT.

The costs of interconnecting the facility to the OKGE transmission system are listed in Table 1.

Short Circuit Fault Duty Evaluation

It is standard practice for OG&E to recommend replacing a circuit breaker when the current through the breaker for a fault exceeds 100% of its interrupting rating with re-closer de-rating applied, as determined by the ANSI/IEEE C37.5-1979, C37.010-1979 & C37.04-1979 breaker rating methods.

For this generator interconnection, no breakers were found to exceed their interrupting capability after the addition of the Customer's 200 MW generation and related facilities. OG&E found no breakers that exceeded their interrupting capabilities on their system. Therefore, there is no short circuit upgrade costs associated with the GEN-2022-098 interconnection.

Table 1: Required Interconnection Network Upgrade Facilities

Facility	ESTIMATED COST (2025 DOLLARS)
Lead time	9 Months
OKGE – Interconnection Facilities (UID 158076) - No new interconnection Facilities necessary	\$0
OKGE – Network Upgrades (UID 158077) - Network upgrades at Bison Substation	\$30,000
OKGE – Land or ROW	\$0
Total	\$30,000

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BISON SUBSTATION

