



AFFECTED SYSTEM FACILITIES STUDY REPORT

OPPD

Network Upgrades

AECI GIA-93

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By SPP Generator Interconnections Dept.

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION
10/25/2022	SPP	Initial draft report issued.

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SUMMARY

INTRODUCTION

This Affected System Facilities Study (FS) for Interconnection Request AECI GIA-93 is for a 100 MW generating facility. The Interconnection Request was studied in SPP Affected Systems Impact Study of AECI GIA-92-95 .

The Affected Transmission Owner, Omaha Public Power District (OPPD), performed a detailed FS at the request of SPP. The full report is included in Appendix A

The primary objective of the FS is to identify necessary Network Upgrade cost estimates and associated upgrade lead times needed to grant the requested Interconnection Service.

PHASE(S) OF INTERCONNECTION SERVICE

It is not expected that Interconnection Service will occur in phases. However, full Interconnection Service will not be available until all Network Upgrade(s) can be placed in service.

COMPENSATION FOR AMOUNTS ADVANCED FOR NETWORK UPGRADE(S)

FERC Order ER20-1687-000 eliminated the use of Attachment Z2 revenue crediting as an option for compensation. The Incremental Long Term Congestion Right (ILTCR) process will be the sole process to compensate upgrade sponsors as of July 1st, 2020.

AFFECTED SYSTEM UPGRADE(S)

To facilitate interconnection, the Affected System Transmission Owner will be required to perform the facilities study work as shown below necessary for the acceptance of the Interconnection Customer’s Interconnection Facilities.

Table 1 lists the Interconnection Customer’s estimated cost responsibility for Affected System Non-Shared Network Upgrade(s) and provides an estimated lead time for completion of construction. The estimated lead time begins when the Facilities Construction Agreement has been fully executed.

Table 1: Interconnection Customer Affected System Upgrade(s)

Affected System Upgrades Description	Total Cost Estimate (\$)	Allocated Percent (%)	Allocated Cost Estimate (\$)
<p>Council Bluff 345kV Switch Replacement (156517): Upgrade the terminal equipment at S3456 – Council Bluffsto meet the required rating of 1195 MVA Estimated Lead Time: 24 months</p>	\$195,682	100%	\$195,682
Total	\$195,682		\$195,682

CONCLUSION

After all Interconnection Facilities and Network Upgrades have been placed into service, Interconnection Service for 100 MW can be granted. Full Interconnection Service will be delayed until the Affected System Upgrades that are required for full interconnection service are completed. The Interconnection Customer’s estimated cost responsibility for full interconnection service is summarized in the table below.

Table 2: Cost Summary

Description	Allocated Cost Estimate
Affected System Upgrade(s)	\$195,682
Total	\$195,682

A draft Facility Construction Agreement (FCA) will be provided to the Interconnection Customer consistent with the final results of this FS report. The Transmission Owner and Interconnection Customer will have 60 days to negotiate the terms of the FCA consistent with the SPP Open Access Transmission Tariff (OATT).

APPENDICES

**A: TRANSMISSION OWNER'S INTERCONNECTION FACILITIES STUDY
REPORT AND NETWORK UPGRADES REPORT(S)**

See next page for the Transmission Owner's Interconnection Facilities Study Report and Network Upgrades Report(s).



Facility Study for Southwest Power Pool Affected Impact Study

AECI GIA-92-95

Revision History			
Revision Date	Version	Change Description	Author
September 27, 2022	0	Initial Study	K. Wells

Introduction

Southwest Power Pool (SPP) has completed the Affected Systems Impact Study of AECI GIA-92-95 to determine potential impacts on neighboring Transmission Owners (TO) within SPP's territory. Pursuant to the tariff and at the request of the Southwest Power Pool (SPP), Omaha Public Power District (OPPD) performed the following Facility Study to satisfy the AECI request. There are not requests for interconnection within the OPPD area, however SPP has identified that one network upgrade of OPPD owned facilities is required.

Detailed Costs and Project Schedule

S3456-Council Bluffs Upgrade (UID 156517)

The 345kV line from substation S3456 to substation CBLUFFS has been identified for a required upgrade. This a system tie line between OPPD and MidAmerican Energy Company (MEC). The point of ownership is the Missouri River crossing; which results in OPPD owning approximately 3.4 miles of the 9.0 mile line. The limiting facility for this line is substation equipment, therefore OPPD is proposing terminal upgrades at S3456 to meet the requested MVA capability.

<u>Upgrades</u>	<u>Lead Time</u>	<u>Costs</u>
S3456 Terminal Upgrades	24 Months	\$195,682.00

Conclusion

Because all facilities are interconnecting outside of the OPPD planning area, no further detailed evaluation is required, and the above upgrade is assumed to be adequate based on the SPP Affected Systems Impact Study results.