



AFFECTED SYSTEM FACILITIES STUDY REPORT

Liberty Utilities
Network Upgrades
AECI GIA-94

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By SPP Generator Interconnections Dept.

REVISION HISTORY

DATE OR VERSION NUMBER	AUTHOR	CHANGE DESCRIPTION
10/28/2022	SPP	Initial draft report issued.

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SUMMARY

INTRODUCTION

This Affected System Facilities Study (FS) for Interconnection Request AECI GIA-94 is for a 225 MW generating facility. The Interconnection Request was studied in SPP Affected Systems Impact Study of AECI GIA-92-95 .

The Affected Transmission Owner, Liberty Utilities (LU), performed a detailed FS at the request of SPP.

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 (\$)
<u>Morgan to Dadeville 161 kV Rebuild (156518):</u> Reconductor the existing Morgan to Dadeville 161kV line as a double circuit to achieve a minimum summer/emergency rating of 294 MVA. Updated rating will be 334 MVA Estimated Lead Time: 22 months	\$1,124,308	100%	\$1,124,308
Total	\$1,124,308		\$1,124,308

CONCLUSION

After all Interconnection Facilities and Network Upgrades have been placed into service, Interconnection Service for 225 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)	\$1,124,308
Total	\$1,124,308

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).