

The logo for the Farmington Electric Utility System features a yellow rectangular background with a blue lightning bolt in the top-left corner and a red lightning bolt in the bottom-right corner.

**FARMINGTON ELECTRIC
UTILITY SYSTEM**



MILAGRO GENERATION

Generation Interconnection Facilities Study Report

Report No. GI.01.60.25

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1.0 INTRODUCTION

The Milagro Generation Project is a 60 MW natural gas-fired facility located in Bloomfield, New Mexico. The project consists of two simple-cycle combustion turbine units rated at 30 MW each. The Generation Owner (GO) for the project is Harvest Midstream. The facility was previously interconnected to the Farmington Electric Utility System (FEUS) and operated as part of the Bulk Electric System (BES) prior to being taken out of service in 2022.

This study evaluates the reintegration of the Milagro Generation Facility into the FEUS transmission system under current system conditions. The project utilizes the existing Point of Interconnection (POI) at the Hare Switching Station through a dedicated 115 kV transmission line. This existing transmission line connects directly to the Milagro station and has been maintained for continued service. No new transmission lines, substations, or major system infrastructure are required for this interconnection.

The purpose of this assessment is to confirm that the Milagro Generation Project can be reliably reconnect with FEUS system without requiring any significant upgrades or modifications to the existing transmission network.

2.0 PROJECT DESCRIPTION AND STUDY FINDINGS

The Milagro Generation Facility consists of two natural gas-fired combustion turbine (CT) units rated at 30 MW each, for a total capacity of 60 MW. The generators are connected at the Milagro Bus (79641) and electrically tied to the Hare Switching Station (Bus 79629) through an existing 115 kV transmission line.

A System Impact Study (SIS) was completed for the Milagro Generation Project to evaluate the effect of reintegrating the facility under current FEUS system conditions. The SIS concluded that the FEUS transmission system can accommodate the Milagro project without major impacts and that no transmission system upgrades are required, other than upgrades to the Hare–Milagro 115 kV line protection.

The Milagro–Hare 115 kV line serves as the sole path for delivering generation into the FEUS transmission system.

3.0 INTERCONNECTION FACILITIES AND NETWORK UPGRADES

This section describes the interconnection facilities associated with the Milagro Generation Project, including Interconnection Customer (IC) facilities and Transmission Owner Interconnection Facilities (TOIF).

Based on the results of the System Impact Study (SIS), no new transmission lines, substations, or major network upgrades are required to accommodate the reintegration of the Milagro Generation Facility. The project will utilize existing interconnection infrastructure.

However, minor upgrades to the existing transmission system are required, specifically related to the protection system associated with the Hare–Milagro 115 kV transmission line (FEUS Owned).

3.1 INTERCONNECTION CUSTOMER FACILITIES

The Interconnection Customer is responsible for the operation, maintenance, and verification of all existing generating facility equipment and associated interconnection facilities.

The Interconnection Customer facilities include:

- Existing 60 MW generating facility (two combustion turbine units)
- Existing plant switchyard/substation and generator step-up equipment
- Existing dedicated 115 kV transmission line connecting the Milagro facility to the Hare Switching Station
- Existing protection, control, and communication systems

No new Interconnection Customer facilities are required as part of this project. Standard inspection, testing, and verification will be completed prior to returning the facility to service.



FIGURE 1:- POI – MILAGRO-HARE T-LINE 115 KV

3.2 TRANSMISSION OWNER INTERCONNECTION FACILITIES

Farmington Electric Utility System (FEUS), as the Transmission Owner, will perform limited upgrades to the existing transmission system to support the reintegration of the Milagro Generation Facility.

The required Transmission Owner Interconnection Facilities include:

- Review and upgrade of the protection scheme for the Hare–Milagro 115 kV transmission line
- Update and coordination of relay settings to ensure proper system protection under current operating conditions
- Verification and integration of existing communication and control systems associated with the line protection

These upgrades are necessary to ensure reliable and coordinated operation of the transmission system with the Milagro Generation Facility in service.

No additional physical transmission infrastructure or network upgrades are required.

3.3 COST ESTIMATE AND RESPONSIBILITY BOUNDARIES

To facilitate interconnection, the Interconnection Customer is responsible for all costs associated with the Interconnection Facilities and Transmission Owner Interconnection Facilities (TOIF), as defined in this study and to be formalized in the Generator Interconnection Agreement (GIA). The estimated cost responsibility is summarized below.

Table 1 – Transmission Owner Interconnection Facilities (TOIF)

Transmission Owner Interconnection Facilities (TOIF)	Total Cost Estimate (\$)	Allocated Percent (%)	Allocated Cost (\$)
Protection Upgrades	0	100%	0
Estimated Lead Time: 1–2 Months			
Total	\$0		\$0

Table 2 – Non-Shared Network Upgrades

Non-Shared Network Upgrades Description	Total Cost Estimate (\$)	Allocated Percent (%)	Allocated Cost (\$)
None Identified	\$0	100%	\$0
Total	\$0		\$0

Responsibility Boundaries: -

- The Interconnection Customer is responsible for all facilities from the generating facility up to the Point of Interconnection (POI).
- The Transmission Owner (FEUS) is responsible for all facilities and modifications at the West Fork Substation required to accommodate the interconnection.
- All costs associated with Transmission Owner Interconnection Facilities (TOIF) shall be assigned to the Interconnection Customer in accordance with the Generator Interconnection Agreement (GIA).

4.0 CONCLUSION

The Interconnection Facilities Study (IFS) has determined that the Milagro Generation Project can be reliably reconnected to the Farmington Electric Utility System (FEUS) transmission system using existing interconnection infrastructure.

The study confirms that no new transmission lines, substations, or major network upgrades are required to accommodate the reintegration of the Milagro Generation Facility. The only identified Transmission Owner Interconnection Facilities (TOIF) are limited to protection system upgrades and relay setting coordination associated with the Hare–Milagro 115 kV transmission line.

The project represents the reactivation of a previously interconnected generating facility and provides beneficial support to the FEUS transmission system. The Milagro Generation Facility is therefore suitable for interconnection, subject to completion of protection verification, testing, and standard operational coordination requirements.

REFERENCES

- 1) Cross Canyon Engineering, LLC, *"FEUS-1042 Milagro Interconnection Study Final,"* August 2025.
- 2) Farmington Electric Utility System (FEUS), *"Milagro 60 MW Generation Interconnection Assessment,"* October 12, 2025.