

CHAPTER FIVE
NATURAL GAS SUPPLY

5.0 NATURAL GAS SUPPLY

5.1 GAS SUPPLY

The proposed project will be fueled with pipeline-quality natural gas delivered by Southern California Gas Company (SoCalGas). Gas supplies will be acquired from gas providers in supply regions accessible through the SoCalGas gas transmission system. Over the life of the project, it is expected that a variety of different suppliers will contract to provide the gas commodity to the SoCalGas system for transport to the project site. Gas will be procured at market prices.

5.2 GAS PIPELINE INTERCONNECTION

Natural gas will be supplied to the combined cycle unit by SoCalGas, the current supplier of natural gas to the EGS (see Figure 5.2-1). Natural gas will be provided using a new 20-inch-diameter gas line connection from transmission line 4002 that will continue generally westward to the new SGGs metering station on the EGS property. Approximately less than 200 feet of this gas line connection will be off site, with the remainder on the EGS property. The offsite portion of the gas line would cross under Etiwanda Avenue.

A revenue-quality flow meter will be installed at the downstream end of the pipeline when it enters the proposed project site. The pipeline will also be provided with isolation valves and vent valves to allow the pipeline and associated equipment to be depressurized for maintenance or repair.

The new gas metering station will be installed adjacent to the metering station serving the existing plant Units 3 and 4. The metering stations are located on the east side of the EGS property near the plant entrance from Etiwanda Avenue.

A new gas pipeline will be installed to deliver gas from the metering station to the new combined cycle plant area. This pipeline will be installed underground and will run primarily from east to west alongside the existing plant entrance road on the north side of the Metropolitan Water District aqueduct right-of-way. The gas pipeline will be routed together with the new well water supply pipeline that will also serve the new combined cycle power plant.

The gas pipeline will terminate at the new gas compressor station to be installed as part of the combined cycle power plant. The pipeline will also be provided with isolation valves and vent valves to allow the pipeline and associated equipment to be depressurized for maintenance or repair.

5.3 PIPELINE CONSTRUCTION

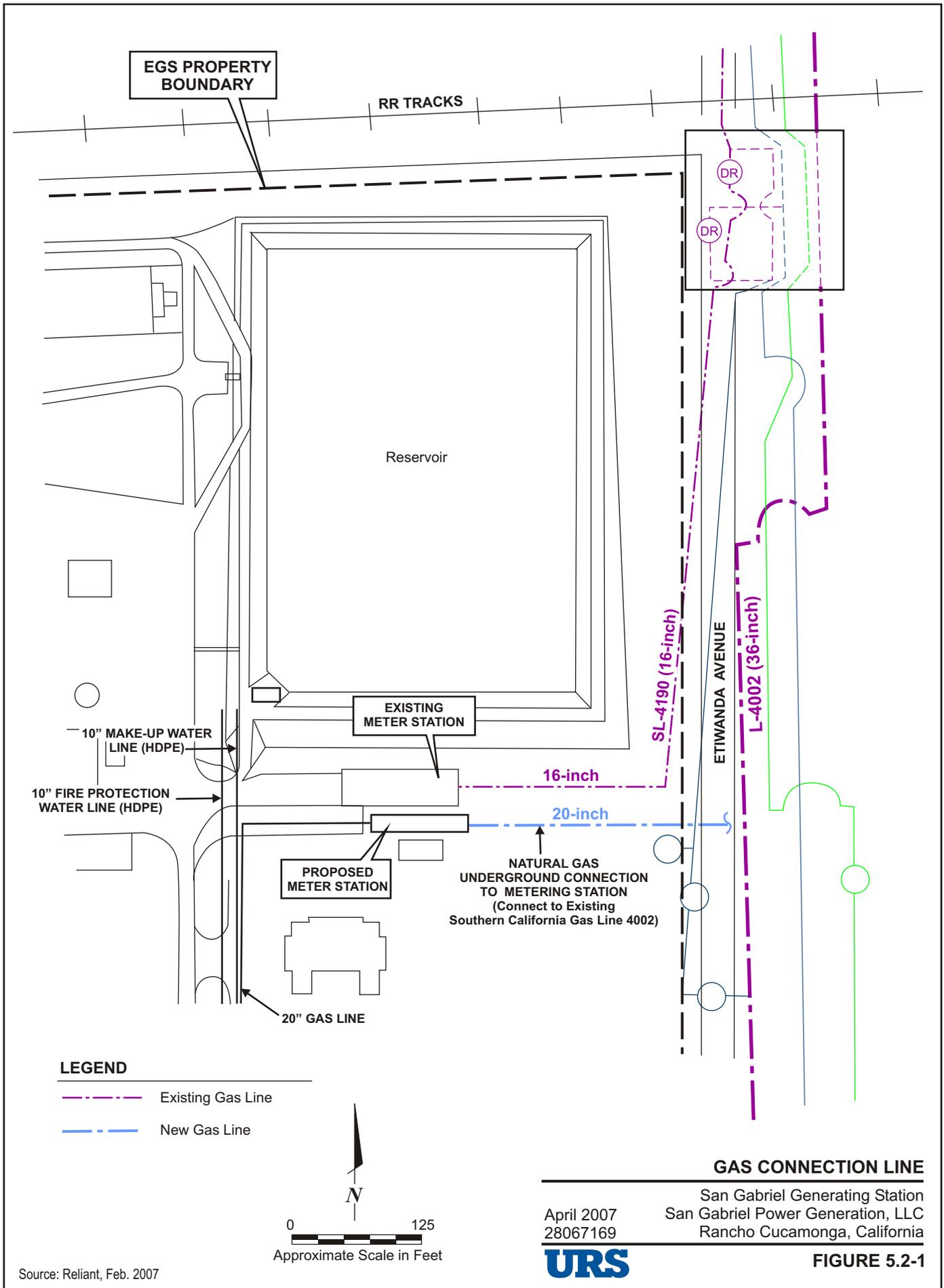
The natural gas pipeline connection will be completed in time to support the SGGs startup and commissioning activities. This pipeline and connection will be completed by SoCalGas. Construction of the pipeline will take approximately one month. Construction will be timed so as not to coincide with peak plant construction workforce. The pipeline workforce will consist of laborers, welders, equipment operators, supervisory personnel, and construction management personnel.

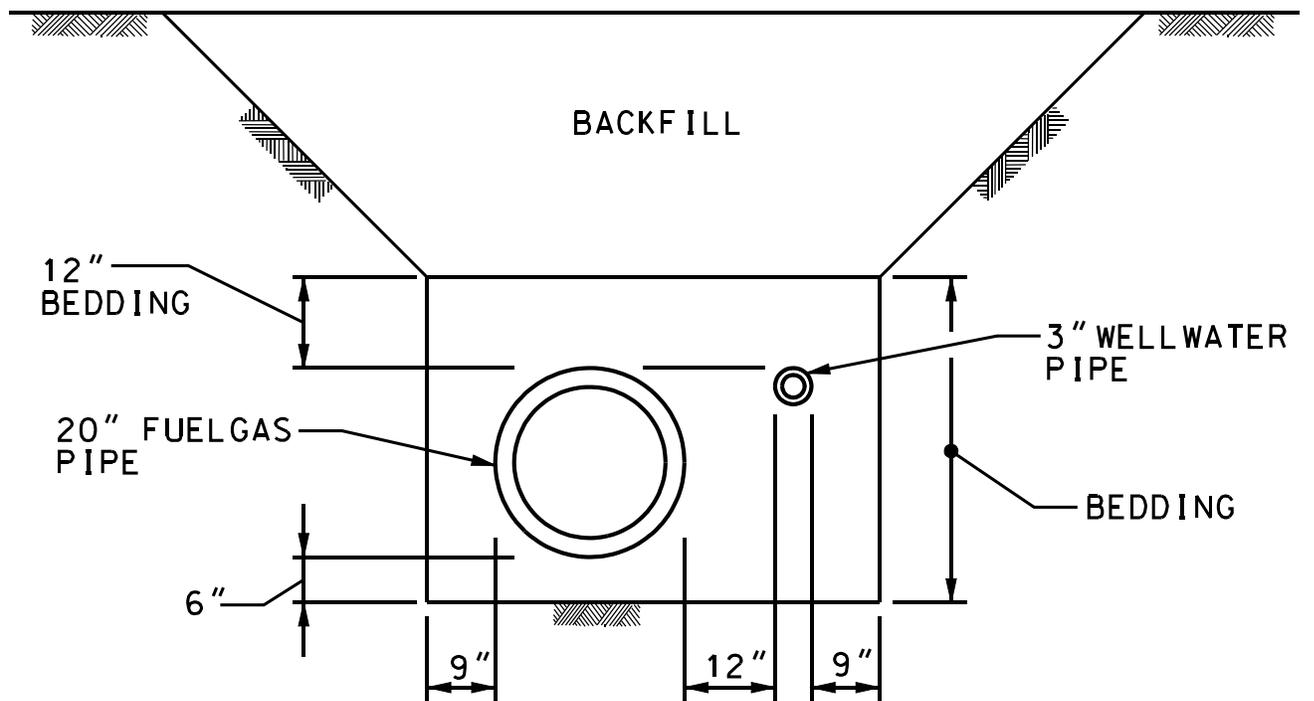
The pipeline will be designed, constructed, maintained, owned, and operated by SoCalGas in accordance with California Public Utility Commission (CPUC) General Order 112E and CFR 49 Part 192 as applicable.

The new onsite pipeline will be an approximately 20-inch-diameter all welded steel pipe installed and tested in accordance with ANSI B31.1 Power Piping Code. The final pipe size will be determined during

detailed design. The underground portion of the pipeline will be coated with a fusion-bonded epoxy coating to protect the pipe from exterior corrosion. The total length of the onsite natural gas pipeline will be approximately 2,000 feet. A typical cross section showing the completed pipeline installation for the onsite portion is shown on Figure 5.3-1.

Approximately 31,000 gallons of hydrotest water will be required for complete line fill and testing of the SoCalGas pipeline. The onsite gas pipeline will require approximately 35,000 gallons of water. If suitable for discharge, the water will be routed to the plant's wastewater disposal system. If the water quality is not suitable for discharge, the water will be transported by trucks to an approved offsite disposal facility.





**TYPICAL UNDERGROUND
PIPE INSTALLATION (ON SITE)**

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San Gabriel Generating Station
San Gabriel Power Generation, LLC
Rancho Cucamonga, California



FIGURE 5.3-1

Source:
Sargent & Lundy, Typical Underground Pipe Installation
Figure 3.5-7 031907 (A) (03-19-2007)