Title V Air Operation Permit Renewal
Permit No. 0390029-015-AV

APPLICANT

The applicant for this project is Florida Gas Transmission Company. The applicant's responsible official and mailing address are: Mr. David W. Shellhouse, Vice President, Southeast Operations, Florida Gas Transmission Company, 2405 Lucien Way, Suite 200, Maitland, Florida 32751-7047.

FACILITY DESCRIPTION

The applicant operates the Gadsden Compressor Station No. 14, which is located at 3690 Hosford Highway, Quincy, Florida.

The existing facility is part of a natural gas transmission pipeline system and contains six natural gas fired internal combustion reciprocating engines and three natural gas-fired gas combustion turbines. The engines provide power for compressors to move the gas along the pipeline.

Emissions Units 001 through 003 and 005 (FGT Engines 1401, 1402, 1403 and 1405), are spark ignition (SI) reciprocating internal combustion (IC) engines manufactured by Worthington, model SEHG-8. The engines are fired by pipeline natural gas (NG) and each is rated at 2,000 BHp with a maximum heat input rating of 15 MMBtu/hr. These natural gas-fired engines <u>are</u> subject to 40 CFR 63 Subpart ZZZZ. However, pursuant to 40CFR63.6590(b)(3)(ii), existing 4SLB engines with a site rating greater than 500 Hp located at major HAP sources do not have to meet the requirements of 40 CFR 63 subparts A or ZZZZ, and are not required to submit an initial notification. Accordingly, these engines have no applicable federal requirements at this time.

Emissions Unit 004 (FGT Engine 1404) is a SI reciprocating IC engine manufactured by Worthington, model SEHG-8. This engine is fired by pipeline NG and is rated at 2,000 BHp with a maximum heat input rating of 16.5 MMBtu/hr. Emissions Unit 006 (FGT Engine 1406) is a SI reciprocating IC engine manufactured by Cooper-Bessemer, model GMVR-12C. This engine is fired by pipeline NG and rated at 2,700 BHp with a maximum heat input rating of 21.69 MMBtu/hr. Emissions Unit 008 (FGT Engine 1407) is a gas combustion turbine manufactured by Solar, model Mars 90 T13002S. This gas combustion turbine is fired by pipeline NG and rated at 13,000 BHp at ISO conditions with a maximum heat input of 112.8 MMBtu/hr at ISO conditions. Heat input rate will vary depending upon gas turbine characteristics, load and ambient conditions. Emissions Unit 010 (FGT Engine 1408) is a gas combustion turbine manufactured by Nuovo Pignone, model PGT-10B. This gas combustion turbine is fired by pipeline NG and rated at 15,700 BHp at ISO conditions with a maximum heat input of 134.8 MMBtu/hr at ISO conditions. Heat input rate will vary depending upon gas turbine characteristics, load and ambient conditions.

Emissions Unit 011 (FGT Engine 1409) consists of a Solar Titan Model No. 130-20502S gas combustion turbine. The combustion turbine fires approximately 151,800 cubic feet per hour of pipeline NG at the maximum permitted capacity. At 165 MMBtu per hour of heat input, the combustion turbine produces approximately 20,500 BHp. Emissions Unit 012 (Emergency Generators FGTC GEN04 and FGTC GEN05) consists of Two-Generac Model No. SG300 (or equivalents) emergency generators, FGTC GEN04 and FGTC GEN05, each powered by 454 BHp SI reciprocating internal combustion engines firing pipeline NG. The engines are four-stroke, rich burn, spark-ignition engines. The engines coupled with the generators utilize a non-selective catalytic reduction or three-way catalyst as primary control technology. Emissions Units 011 and 012 were added under construction permit 0330029-011-AC along with one 500-gallon oily water tank (Emissions Unit 009).

Internal combustion engines (Nos. 1401 - 1406) and combustion turbines (Nos. 1407 and 1408) are subject to (MACT) 40 CFR 63 Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines and Subpart YYYY - NESHAP for Stationary Combustion Turbines, respectively. However, based on rules 40 CFR 63.6090(b)(4) and 63.6590(b)(3), the units do not have to meet the requirements of the subparts or subpart A. In addition, no initial notification is required. Be aware that any future reconstruction (defined in 40 CFR 63.2) may

result in this equipment becoming subject to these rules. Compressor Engine (FGT Engine 1409) was installed on December 16, 2010 and is subject to 40 CFR 60 Subpart KKKK - NSPS for Stationary Combustion Turbines and 40 CFR 63 Subpart YYYY - NESHAP for Stationary Combustion Turbines. Emissions Unit 012, the two 454 Hp spark ignition reciprocating internal combustion engines for the emergency generators, are subject to the limits from table 1, and the certification, maintenance and recordkeeping requirements of 40 CFR 60 Subpart JJJJ - Stationary Spark Ignition Internal Combustion Engines. By meeting the applicable requirements of 40 CFR 60 Subpart JJJJ, the two 454 Hp engines for the emergency generators also meet applicable requirements in 40 CFR 63, NESHAP Subparts A and ZZZZ - Reciprocating Internal Combustion Engines.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to renew the existing Title V permit for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit issued June 24, 2008**.**
Title V Air Operation Permit Revision issued November 27, 2011.
Title V Air Operation Permit Administrative Correction issued April 23, 2012.
Application for a Title V Air Operation Permit Renewal received November 9, 2012.
Notice of Intent to Issue Air Permit issued February 1, 2013
Public Notice Published **[Month day, year]**

PRIMARY REGULATORY REQUIREMENTS

Title III: The facility is identified as a major source of hazardous air pollutants (HAP).

Title V: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

PSD: The facility is a Prevention of Significant Deterioration (PSD)-major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility operates units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60.

NESHAP: The facility operates units subject to the National Emissions Standards for Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

CAIR: The facility is not subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

CAM: Compliance Assurance Monitoring (CAM) does not apply to any of the units at the facility.

PROJECT REVIEW

This project renews the existing Title V permit No. 0390029-010-AV and includes changes made under construction permits 0390029-011-AC and 0390029-012-AC, which were incorporated into the existing Title V Air Operation Permit by revision No. 0390029-013-AV, effective November 28, 2011.

CONCLUSION

This project renews Title V air operation permit No. 0390029-010-AV, which was issued on June 24, 2008. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.