Title V Air Operation Permit Revision
Permit No. 1230034-019-AV

APPLICANT

The applicant for this project is Florida Gas Transmission Company. The applicant's responsible official and mailing address are: 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 Compressor Station No. 15, which is one of the existing compressor stations for the natural gas pipeline serving Florida. The compressor station is located in Taylor County at 2065 Pisgah Road (CR 361), Perry, Florida.

The existing compressor station consists of the following equipment: five 2000 bhp, 4-stroke, lean-burn, natural gas-fired reciprocating internal combustion engines (FGTC Nos. 1501, 1502, 1503, 1504, and 1505, Worthington Model No. SEHG-8) serving as compressor engines; one 4000 bhp, 2- stroke, lean-burn, natural gas-fired reciprocating internal combustion engine (FGTC No. 1506, Cooper Bessemer Model No. 8W-330-C2) serving as a compressor engine; one ISO rated 7200 bhp natural gas-fired combustion turbine (FGTC No. 1508, Cooper-Rolls Model 501-KC7-DLE) serving as a compressor engine; one ISO rated 15,000 bhp natural gas turbine (FGTC No. 1507, Solar Model No. Mars 100 T-15000S) serving as a compressor engine; one continuous service 800 bhp, peak 860 bhp natural gas-fired emergency generator (FGTC No. GEN03, Waukesha Model No. L36GL); and one 233 bhp natural gas-fired emergency generator (FGTC No. GEN04, Genrac®, Model: SG150).

Also included in this permit are miscellaneous fugitive emission leaks from valves, flanges, etc. , and insignificant emissions units and/or activities.

PROJECT DESCRIPTION

The purpose of this permitting project is to revise the existing Title V permit for the above referenced facility to include the new 223 bhp emergency generator that was installed under terms and conditions of air construction permit No. 1230034-018-AC. This emissions unit is classified as an insignificant emissions unit in accordance with Rule 62-213.430(6), F.A.C.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit issued February 10, 2009
Application for a Title V Air Operation Permit Revision received May 27, 2011
Notice of Intent to Issue Air Permit issued August 3, 2011
Public Notice Published August 12, 2011

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 source of air pollution in accordance with Rule 62-212.400, F.A.C.

NSPS: The facility does operate units subject to the New Source Performance Standards (NSPS) of 40 Code of Federal Regulations (CFR) 60. The gas turbines are subject to the New Source Performance Standards in 40 CFR 60, Subpart GG.

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

The two combustion turbines are subject to 40 CFR 63, Subpart YYYY- NESHAP for Stationary Combustion Turbines. In accordance with 40 CFR 63.6090(b)(4), these emissions units do not have to meet the requirements of this subpart or subpart A of this part.

The five, 2000 bhp, and the one, 4000 bhp reciprocating internal combustion engines are classified as existing stationary RICE by 40 CFR 63.590(a)(1)(i) of Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines since they each commenced construction on or before December 19, 2002. As such, in accordance with 40 CFR 63.6590(b)(3)(i) and (ii), these engines do not have to meet the requirements of Subpart ZZZZ or 40 CFR 63 Subpart A. These engines presently do not meet the applicability requirements of 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

In accordance with 40 CFR 63.6590(b)(3)(iii), the 800 bhp, natural gas fired, emergency engine does not have to meet the requirements of Subpart ZZZZ and of 40 CFR 63 Subpart A due to classification as an existing emergency stationary RICE (40 CFR 63.590(a)(1)(i)), with a site rating of more than 500 brake HP located at a major source of HAP emissions. These engines presently do not meet the applicability requirements of 40 CFR 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

The nameplate on the 223-brake horsepower, natural gas fired, spark ignition, four-stroke rich burn, reciprocating internal combustion emergency engine generator indicates the engine was manufactured on December 8, 2008. Pursuant 40 CFR 60.4230(a)(4)(iv) of Subpart JJJJ, emergency engines with a maximum engine power greater than 19 KW (25 HP) that are manufactured prior to January 1, 2009 are not subject to 40 CFR 60 Subpart JJJJ. The engine is classified as new stationary RICE by 40 CFR 63, Subpart ZZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. The subpart requires that 40 CFR 60 Subpart JJJ standards be met in accordance with 40 CFR 63.6590(c)(4). No other 40 CFR 63 Subpart ZZZZ standards apply. The engine qualifies as an insignificant emissions unit in accordance with Rule 62-213.430(c), F.A.C.

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

To incorporate the new 223 bhp emergency generator that was installed under terms and conditions of air construction permit No. 1230034-018-AC into the Title V Air Operation Permit as an insignificant emissions unit.

Changes that were made as part of this revision include 1) the addition of Appendix U-1, 2) corrections to mailing addresses, phone numbers, etc. for the Department and EPA, and 3) the addition of the following Facility-wide Conditions:

6. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.

[Rule 62-213.440(1), F.A.C.]

10. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site:

http://www.dep.state.fl.us/air/emission/tvfee.htm.

[Rule 62-213.205, F.A.C.]

On August 5, 2011, the Department made the following correction to a typographical error in the facility description and insignificant Emissions Unit 007 description in the permit:

The brake horsepower for the emergency generator that was installed under terms and conditions of air construction permit No. 1230034-018-AC was incorrectly stated to be 233 instead of 223. This typographical error was corrected in the final permit.

CONCLUSION

This project revises Title V air operation permit No. 1230034-017-AV, which was issued on February 10, 2009. This revision is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210 and 62-213, F.A.C.