Title V Air Operation Permit Revision
Permit No. 1330005-007-AV

APPLICANT

The applicant for this project is Florida Gas Transmission Company. The applicant's responsible official and mailing address are: Mr. David Shellhouse, Vice President – Southeast Operations, Florida Gas Transmission Company, Compressor Station 13, 2405 Lucien Way, Suite 200, Maitland, Florida 32751-7047.

FACILITY DESCRIPTION

The applicant operates the Compressor Station 13, which is located at 2508 River Road, Caryville, Florida 32427-9801.

This existing facility is a part of a natural gas transmission pipeline system from source wells in Texas and Louisiana for delivery throughout Florida. This station includes five 2,000 bhp and one 2,700 bhp natural gas fired reciprocating internal combustion (IC) engines.

Emission units 001 through 005 consist of five 2,000 bhp Cooper-Bessemer Model LS-8-SG engines installed as follows: engines 1301, 1302, and 1303 in 1962; engine 1304 in 1966, and engine 1305 in 1968. The engines are naturally aspirated and operate at near stoichiometric air-to-fuel ratio. Nitrogen oxides and carbon monoxide are emitted uncontrolled through raised stacks. The engines are not subject to any source specific emission limits, and CAM does not apply. Compliance is assured by the submission of annual operating reports identifying hours of operation and fuel usage, and by the submission of an annual statement of compliance.

Emission unit 006 consists of a 2,700 bhp engine is a Cooper-Bessemer model GMVR-12C2 engine installed in 1991 identified as engine 1306. This engine has a maximum heat input of 21.7 MMBtu/hr and incorporates "lean burn" technology to minimize exhaust NOx emissions. This engine was installed with Permit AC67-189220 (PSD-FL-158) issued in accordance with Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD), and incorporated a Best Available Control Technology (BACT) determination dated May 8, 1991 of 2.0 grams/bhp-hr NOx for this engine (equivalent to 10.6 lbs/hr and 43.6 TPY). CAM does not apply since this engine does not utilize a pollution control device to meet the BACT emission limit. Compliance is assured by annual emission testing in accordance with EPA methods, record keeping of natural gas consumption, the submission of annual operating reports identifying hours of operation and fuel usage, and the submission of an annual statement of compliance.

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

PROJECT DESCRIPTION

The purpose of this permitting action is to revise the existing Title V permit to incorporate construction permit 1330005-006-AC, which includes the addition of one emergency generator powered by a reciprocating internal combustion engine (RICE) that fires pipeline natural gas.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit issued July 1, 2008
Application for a Title V Air Operation Permit Revision received May 27, 2011
Notice of Intent to Issue Air Permit issued August 23, 2011
Public Notice Published September 3, 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.

NESHAP: The facility does operate 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 as discussed above in the facility description.

PROJECT REVIEW

This revision incorporates construction permit 1330005-006-AC, effective May 8, 2009, which includes the Phase VIII expansion project. As part of the expansion, one Generac Model No. SG150 emergency generator powered by a 223 bhp reciprocating internal combustion engine (RICE) that fires pipeline natural gas was installed on May 28, 2010. The engine is a 4-stroke, rich burn, spark-ignition engine (4SRB) that was manufactured on December 8, 2008. According to 40 CFR 63 subpart ZZZZ {63.6590(c)(4)}, new 4SRB engines with a site rating equal to or less than 500 hp located at a major source, meet the requirements of subpart ZZZZ by meeting the requirements of 40 CFR 63 subpart JJJJ. Because the emergency generator was manufactured prior to January 1, 2009, there are no emissions standards in Table 1 to 40 CFR 63 subpart JJJJ that apply. The engine is subject only to recordkeeping requirements and is being added as an insignificant emissions unit. Changes that were made as part of this revision include reformatting and replacement of TV-6 with new Appendix TV.

CONCLUSION

This project revises Title V air operation permit No. 1330005-005-AV, which was issued on July 1, 2008. This Title V air operation permit 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.