Title V Air Operation Permit Renewal
Permit No. 1330005-008-AV

APPLICANT

The applicant for this project is Florida Gas Transmission Company. The applicant's responsible official and mailing address are: Mr. Eric Amundsen, Vice President Technical Services, Florida Gas Transmission Company, 5051 Westheimer Road, Houston, TX 770056-5306.

FACILITY DESCRIPTION

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

This 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 six natural gas-fired internal combustion compressor engines, miscellaneous support equipment and one new natural gas-fired emergency generator engine.

Emissions Units (EU) 001 through EU005 (FGTC Engines 1301 – 1305) are 2,000 brake horsepower (bhp) Cooper-Bessemer, Model LS-8-SG, engines installed as follows: Engines 1301, 1302 and 1303 were installed in 1962, Engine 1304 in 1966, and Engine 1305 in 1968. The engines are natural gas-fired four-stroke *lean burn* (4SLB), spark-ignition, reciprocating internal combustion engines with a maximum heat input of 15 MMBtu/hr for each engine. Nitrogen oxides and carbon monoxide are emitted uncontrolled through raised stacks. These engines are subject to 40 CFR 63 subpart ZZZZ. However, pursuant to 40 CFR 63.6590(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. These engines have no applicable federal requirements at this time.

EU006 (FGTC 1306) is a 2,700 bhp Cooper-Bessemer Model GMVR-12C2 engine installed in 1991. The engine is a natural gas-fired two-stroke *lean burn* (2SLB), spark-ignition, reciprocating internal combustion engine with 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), which 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). Compliance Assurance Monitoring (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.

The Generac Model SG150 emergency generator (FGTC GEN05) is powered by a 223 bhp reciprocating internal combustion engine and was installed on May 28, 2010 by permit 1330005-006-AC. The engine is a 4-stroke, rich burn (4SRB), spark-ignition engine 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 60 subpart JJJJ. Because the emergency generator was manufactured prior to January 1, 2009, there are no emissions standards in Table 1 to 40 CFR 60 subpart JJJJ that apply. The engine qualifies as an insignificant emissions unit pursuant to Rule 62-210.300(3)(a)(35), F.A.C.; however, it is subject to recordkeeping requirements pursuant to 40 CFR 60.4243(b)(2)(i), and is included in this permit as regulated emission unit because it is subject to 40 CFR 60 subpart JJJJ.

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 1330005-005-AV for the above referenced facility.

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Renewed Title V Air Operation Permit issued July 1, 2008
Title V Air Operation Permit Revision issued November 28, 2011
Application for a Title V Air Operation Permit Renewal received November 19, 2012
Notice of Intent to Issue Air Permit issued February 1, 2013
Public Notice Published February 6, 2013

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 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 project renews the existing Title V permit 1330005-005-AV. Changes that were made as part of this renewal include reformatting and use of new permitting template.

CONCLUSION

This project renews Title V air operation permit 1330005-005-AV, which was issued on July 1, 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.