SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Danny Pribble
Vice President of Operations
Florida Gas Transmission Company
P.O. Box 1188
Houston, TX 77251

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* B. Date of Delivery

JUL 2 8 2001

C. Signature

X

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7000 0600 0026 4129 9259

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7000 0600 0026 4129 9259

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	$

Postmark Here

Recipi Mr. Danny Pribble
Vice President of Operations
Street, Florida Gas Transmission Company
P.O. Box 1188
City, S Houston, TX 77251

PS For ... Instructions

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

NOTICE OF FINAL PERMIT

In the Matter of an
Application for Permit by:

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Authorized Representative:
Danny Pribble, V.P. of Operations

Osceola Compressor Station No. 31
Air Permit No. 0970076-001-AC
New Gas Pipeline Compressor Station

Enclosed is Final Air Permit No. 0970076-001-AC, which authorizes the construction of a new compressor station for Florida Gas Transmission Company's existing natural gas pipeline. The new facility will located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. As noted in the Final Determination (attached), only minor changes to correct typographical errors were made. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty (30) days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 7/24/01 to the person(s) listed:

Mr. Danny Pribble, FGT*
Mr. Jim Thompson, FGT
Mr. Kevin McGlynn, McGlynn Consulting Co.
Mr. V. Duane Pierce, AQMcs
Mr. Chris Kirts, NED

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Charlotte J. Hayes (Clerk) 7/24/01 (Date)

FINAL DETERMINATION

PERMITTEE

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
New Source Review Section
2600 Blair Stone Road, MS #5505
Tallahassee, Florida, 32399-2400

PROJECT

Air Permit No. 0970076-001-AC
Osceola Compressor Station No. 31

This permit authorizes the construction of a new compressor station for Florida Gas Transmission Company's existing natural gas pipeline. It will consist of a compressor building, an auxiliary building, a 2225 bhp reciprocating compressor engine, a 184 bhp emergency generator, a pipeline condensate storage tank, and an oily water storage tank. The compressor engine and emergency generator fire only natural gas. The new facility will be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida.

NOTICE AND PUBLICATION

The Department distributed an "Intent to Issue Permit" package on June 29, 2001. The applicant published the "Public Notice of Intent to Issue" in The Orlando Sentinel on July 6, 2001. The Orlando Sentinel is distributed in the adjacent Osceola County. The Department received the proof of publication on July 12, 2001. No requests for administrative hearings were filed.

COMMENTS

No comments on the Draft Permit were received from the public, the Department's Central District Office, or the applicant.

CONCLUSION

Only minor revisions were made to correct typographical errors. The final action of the Department is to issue the permit with the changes described above.

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

PERMITTEE:

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Authorized Representative:
Danny Pribble, V.P. of Operations

Osceola County Compressor Station No. 31
Air Permit No. 0970076-001-AC
Facility ID No. 0970076
SIC No. 4922
Permit Expires: June 1, 2002

PROJECT AND LOCATION

This permit authorizes the construction of a new pipeline compressor Station No. 31 to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The new station will consist of a compressor building, an auxiliary building, a 2225 bhp reciprocating compressor engine, a 184 bhp emergency generator, a pipeline condensate storage tank, and an oily water storage tank.

The UTM coordinates of the new station are: Zone 17, 456.5 km East, and 3135.5 km North.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

CONTENTS

Howard L. Rhodes, Director
Division of Air Resources Management

July 24, 2001
(Date)

FACILITY AND PROJECT DESCRIPTION

The new facility will operate as a compressor station in Osceola County for Florida Gas Transmission Company's natural gas pipeline. After the project is complete, the facility will consist of the following emissions units.

EU ID	Emissions Unit Description
001	FGT No. 3101: This unit is a pipeline compressor engine consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608) with a capacity of 2225 bhp.
002	Miscellaneous Equipment: This equipment includes a compressor building, an auxiliary building, a gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12), a 4200 gallon (nominal) pipeline condensate storage tank, a 4200 gallon (nominal) oily water storage tank, and fugitive emissions from component leaks.

REGULATORY CLASSIFICATION

Title III: Based on the application, the facility is not a major source of hazardous air pollutants (HAP).

Title IV: Based on the application, the facility is not subject to the acid rain provisions of the Clean Air Act.

Title V: Based on the application, the facility is not a Title V major source of air pollution.

PSD: Based on the application, the facility is not a major source of air pollution pursuant to the requirements of the Prevention of Significant Deterioration (PSD) of Air Quality Program, Rule 62-212.400, F.A.C.

NSPS: Based on the application, the facility will have no emissions units subject to any New Source Performance Standards in 40 CFR 60.

RELEVANT DOCUMENTS

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action and are on file with the Department.

- Permit application received on 06-06-01 and additional information to make complete.

1. Permitting and Compliance Authority: Applications for permits to operate as well as all documents related to compliance activities (such as reports, tests, and notifications) shall be submitted to the Department's Central District Office at 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32308-3767. The telephone number is 407/894-7555.

2. Appendices: The following Appendices are attached as part of this permit.

   - Appendix CF describes the format used to cite applicable rules and regulations as well as previous permitting actions.

   - Appendix GC specifies the general conditions applicable to all permittees. The general conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]

3. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]

4. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

5. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

6. Air Operation Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. The permittee shall apply for a minor source air operation permit at least sixty (60) days before the expiration of this construction permit, but no later than ninety (90) days after commencing operation. To apply for an operation permit, the applicant shall submit the appropriate application form, any required compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Central District Office at the address listed above. [Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

A. FGT UNIT 3101, RECIPROCATING COMPRESSOR ENGINE

This section of the permit addresses the following new emissions unit.

Emissions Unit No. 001: Reciprocating Compressor Engine (FGT Unit No. 3101)
Description: This unit is a pipeline compressor engine consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608).
Fuel: The compressor engine fires pipeline-quality natural gas (SCC No 2-02-002-54). The maximum natural gas firing rate is approximately 14,570 cubic feet per hour based on a heat content of 1040 BTU per SCF of gas.
Capacity: The compressor engine produces 2225 bhp when firing approximately 15.2 mmBTU (HHV) per hour of natural gas.
Stack Parameters: When operating at 100% capacity, exhaust gases exit a 1.625 feet diameter stack that is 44.5 feet tall with a flow rate of approximately 14,816 acfm at 842° F.

CONSTRUCTION

1. Compressor Engine: The permittee is authorized to install, tune, operate and maintain a new Caterpillar Model No. G3608 reciprocating internal combustion engine as a natural gas pipeline compressor engine. The permittee identifies the gas turbine compressor engine as Unit No. 3101. [Applicant Request; Design]
2. Construction Certification: The permittee shall provide certification that construction was completed in accordance with the application and note any deviations. Such certification shall be included as part of the application for the initial air operation permit. [Rule 62-4.220, F.A.C.]
3. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

PERFORMANCE RESTRICTIONS

4. Permitted Capacity: The maximum heat input rate to the compressor engine shall not exceed 15.2 mmBTU per hour while producing approximately 2225 bhp based on a higher heating value (HHV) of 1040 BTU per SCF for natural gas. [Rule 62-210.200(PTE), F.A.C.]
5. Authorized Fuel: The compressor engine shall fire only pipeline-quality natural gas. [Applicant Request; Rule 62-210.200(PTE), F.A.C.]
6. Restricted Operation: Operation of the compressor engine is not limited (8760 hours per year). [Rule 62-210.200(PTE), F.A.C.]
7. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. {Permitting Note: A properly maintained compressor engine firing natural gas should have no visible emission plume.} [Rule 62-210.700(4), F.A.C.]

OPERATION

8. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
9. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are

adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

13. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

14. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and62-210.200(203), F.A.C.]

15. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1, F.A.C.]

RECORDS, REPORTS, AND NOTIFICATIONS

16. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least three (3) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14), F.A.C.]

17. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]

18. Notifications: The permittee shall provide the following notifications:

    a. If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]

    b. Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. [Rule 62-4.070(3), F.A.C.]

    c. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. [Rule 62-4.070(3), F.A.C.]

    d. In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

B. UNREGULATED EMISSIONS UNITS

This permit recognizes the following miscellaneous unregulated equipment.

Emissions Unit No. 002: Miscellaneous Equipment
Ancillary equipment includes: • A gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12); • A 4200 gallon (nominal) oily water storage tank; • A 4200 gallon (nominal) pipeline condensate storage tank; • A compressor building and an auxiliary building; and • Fugitive emissions from component leaks (from valves, pumps, flanges, etc.)

In accordance with Rule 62-210.300(3) (Exemptions), F.A.C., the following equipment is exempt from air pollution construction permitting requirements.

Emergency Generator

(a) Categorical Exemptions

20. One or more emergency generators located within a single facility provided:
    a. None of the emergency generators is subject to the Federal Acid Rain Program; and
    b. Total fuel consumption by all such emergency generators within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.

Condensate Storage Tank, Oily Water Tank, and Fugitive Component Leaks

(b) Generic and Temporary Exemptions.

1. Generic Emissions Unit Exemption. An emissions unit or pollutant-emitting activity that is not entitled to a categorical exemption pursuant to Rule 62-210.300(3)(a), F.A.C., shall be exempt from the permitting requirements of this chapter, Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C., if it meets all of the following criteria:
    a. It would be subject to no unit-specific applicable requirement.
    b. It would neither emit nor have the potential to emit:
        (i) 500 pounds per year or more of lead and lead compounds expressed as lead;
        (ii) 1,000 pounds per year or more of any hazardous air pollutant;
        (iii) 2,500 pounds per year or more of total hazardous air pollutants; or
        (iv) 5.0 tons per year or more of any other regulated pollutant.
    c. Its emissions, in combination with the emissions of other units and activities at the facility, would not cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.
    d. In the case of a proposed new emissions unit at an existing facility, the emissions of such unit, in combination with the emissions of any other proposed new or modified units and activities at the facility, would not result in a modification subject to the preconstruction review requirements of Rule 62-204.800(10)(d)2, 62-212.400 or 62-212.500, F.A.C.
    e. In the case of a proposed new pollutant-emitting activity, such activity would not constitute a modification of any existing non-exempt emissions unit at a non-Title V source or any existing non-insignificant emissions unit at a Title V source.

CONTENTS

SECTION 4. APPENDIX CF
CITATION FORMAT

The following examples illustrate the format used in the permit to identify applicable permitting actions and regulations.

REFERENCES TO PREVIOUS PERMITTING ACTIONS

Old Permit Numbers

Example: Permit No. AC50-123456 or Air Permit No. AO50-123456

Where: "AC" identifies the permit as an Air Construction Permit
"AO" identifies the permit as an Air Operation Permit
"123456" identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: "099" represents the specific county ID number in which the project is located
"2222" represents the specific facility ID number
"001"identifies the specific permit project
"AC" identifies the permit as an air construction permit
"AF" identifies the permit as a minor federally enforceable state operation permit
"AO" identifies the permit as a minor source air operation permit
"AV" identifies the permit as a Title V Major Source Air Operation Permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: "PSD" means issued pursuant to the Prevention of Significant Deterioration of Air Quality
"FL" means that the permit was issued by the State of Florida
"317" identifies the specific permit project

RULE CITATION FORMATS

Florida Administrative Code (F.A.C.)

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

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CRF 60.7]

Means: Title 40, Part 60, Section 7

GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

   a. Have access to and copy and records that must be kept under the conditions of the permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

   Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. A description of and cause of non-compliance; and

   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

   The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida

Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

    a. Determination of Best Available Control Technology (NA);
    b. Determination of Prevention of Significant Deterioration (NA); and
    c. Compliance with New Source Performance Standards (NA).

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

    c. Records of monitoring information shall include:

        1) The date, exact place, and time of sampling or measurements;
        2) The person responsible for performing the sampling or measurements;
        3) The dates analyses were performed;
        4) The person responsible for performing the analyses;
        5) The analytical techniques or methods used; and
        6) The results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Memorandum

Florida Department of
Environmental Protection

BAR

TO: Howard Rhodes

THRU: Clair Fancy
Al Linero

FROM: Jeff Koerner

DATE: July 20, 2001

SUBJECT: Final Air Construction Permit No. 0970076-001-AC
Florida Gas Transmission Company
Osceola Compressor Station No. 31
Phase V Modifications

The Final Permit for this project is attached for your approval and signature, which authorizes the construction of a new compressor station for Florida Gas Transmission Company's existing natural gas pipeline. It will consist of a compressor building, an auxiliary building, a 2225 bhp reciprocating compressor engine, a 184 bhp emergency generator, a pipeline condensate storage tank, and an oily water storage tank. The compressor engine and emergency generator fire only natural gas. The new facility will be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. Although the project is minor with respect to PSD, Florida Gas Transmission Company requested that the Tallahassee office process the Phase V modifications due to PSD implications and for purposes of consistency.

The Department distributed an "Intent to Issue Permit" package on June 29, 2001. The applicant published the "Public Notice of Intent to Issue" in The Orlando Sentinel on July 6, 2001. No requests for administrative hearings were filed.

Day #90 is September 17, 2001. I recommend your approval of the attached Final Permit for this project.

Attachments

CHF/AAL/jfk

Orlando Sentinel

Published Daily

RECEIVED

JUL 12 2001

BUREAU OF AIR REGULATION

State of Florida } S.S.
COUNTY OF ORANGE

Before the undersigned authority personally appeared Linda Bridgewater, who on oath says that he/she is the Legal Advertising Representative of Orlando Sentinel, a daily newspaper published at ORLANDO in ORANGE County, Florida; that the attached copy of advertisement, being a PUBLIC NOTICE OF in the matter of #0970076-001-AC

in the ORANGE Court, was published in said newspaper in the issue; of 07/06/01

Affiant further says that the said Orlando Sentinel is a newspaper published at ORLANDO, in said ORANGE County, Florida, and that the said newspaper has heretofore been continuously published in said ORANGE County, Florida, each Week Day and has been entered as second-class mail matter at the post office in ORLANDO in said ORANGE County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Linda Bridgewater

The foregoing instrument was acknowledged before me this 6th day of July, 20 01, by Linda Bridgewater, who is personally known to me and who did take an oath.

Beverly C. Simmons

(SEAL)

BEVERLY C. SIMMONS
My Comm Exp. 3/10/05
No. DD 004941
[ ] Personally Known [ ] Other I.D.

cc: J. Kaerner
T. Kozlov, CD

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT
STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Draft Air Permit No. 0970076-001-AC
Florida Gas Transmission Company
Proposed Osceola County Compressor Station No. 31
Phase V Expansion

The Department of Environmental Protection gives notice of its intent to issue a permit to the Florida Gas Transmission Company to construct a new compressor station (No. 31) for the existing naturol gas pipeline. The proposed new facility will be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The applicant's authorized representative is Mr. Danny Pribble, Vice President of Operations. The applicant's mailing address is Florida Gas Transmission Company, 1400 Smith Street, Houston, TX 77002.

The proposed new facility will be a new minor source of air pollution and will consist of the following equipment: a gas-fired 2225 bhp reciprocating internal combustion compressor engine; a compressor building, an auxiliary building, a gas-fire 184 bhp emergency generator, a condensate storage tank; an oily water storage tank; and fugitive emissions from component leaks. The new station will result in the following potential emissions; 51.6 tons of carbon monoxide per year; 15.5 tons of nitrogen oxides per year, 0.7 tons of particulate matter per year, 1.8 tons of sulfur dioxide per year; and 20.0 tons of volatile organic compounds per year. Therefore, the project is not a major source of air pollution. The draft permit includes conditions that authorize construction of the new station and equipment, specify the capacities, require adequate records and reports, identify generally applicable regulatory requirements, and described equipment that are exempt by rule.

The Department will issue the Final Permit with the attached and conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms and conditions. The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen (14) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department will revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

A person whose substantial interests are affected by the department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who ask the Department for notice of agency action may file a petition within fourteen (14) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name, address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address,and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explantation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means *that the Department's final action may be different from* the position taken by it in this notice. Persons who substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a porty to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
(111 S. Magnolia Drive, Suite 4)
2600 Blair Stone Road, MS #5505
Tallahassee, Florida 32399-2400
Telephone: 850/488-0114

Department of Environmental Protection
Central District Office
Air Resources Section
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32308-3767
Telephone: 407/894-7555

The complete project file includes the application, Technical Evaluation and Preliminary Determination, Draft Permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Department's reviewing engineer for this project for additional information at the address and phone numbers listed above.

COR3976404 7/8/01

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Jim Thompson
Environmental Project Manager
Florida Gas Transmission Company
111 Kelsey Lane, Suite A
Tampa, FL 33619

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery 4 Jan 01

C. Signature
X [signature] ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7000 0600 0026 4129 8771

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7000 0600 0026 4129 8771

Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total P

Postmark Here

Recipie Mr. Jim Thompson
Environmental Project Manager
Street, A Florida Gas Transmission Company
111 Kelsey Lane, Suite A
City, Sta Tampa, FL 33619

PS Form [illegible]

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

May 30, 2001

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Jim Thompson
Environmental Project Manager
Florida Gas Transmission Company Phase V Project
111 Kelsey Lane, Suite A
Tampa, Florida 33619

RE: Compressor Station No. 31, Osceola County
Facility ID 0970076

Dear Mr. Thompson:

The Bureau of Air Regulation received your May 21, 2001, request to construct the above referenced facility. Since a construction permit application for a minor source requires a processing fee pursuant to Chapter 62-4.050(4)(a), F.A.C., you will need to submit a $4,500 fee before we can begin reviewing your application. If you have any questions, please call me at (850)921-9505.

Sincerely,

Patty Adams

Patty Adams
Bureau of Air Regulation

/pa

cc: J. Koerner

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Danny Pribble
Vice President of Operations
Florida Gas Transmission Company
P.O. Box 1188
Houston, TX 77251

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery
JUL - 5 2001

C. Signature
X J. Watt ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7099 3400 0000 1453 1729

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

7099 3400 0000 1453 1729

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To:
Mr. Danny Pribble

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)
Mr. Danny Pribble
Street, Apt. No., or PO Box No.
P.O. Box 1188
City, State, ZIP+4
Houston, TX 77251

PS Form 3800, July 1999 See Reverse for Instructions

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

July 2, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Danny Pribble, V.P. of Operations
Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Re: Draft Air Permit No. 0970076-001-AC
Osceola County Compressor Station No. 31
Phase V Expansion

Dear Mr. Pribble:

Enclosed is one copy of the Draft Permit to construct a new natural gas compressor station (No. 31) to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The Department's "Technical Evaluation and Preliminary Determination", "Intent to Issue Permit", and the "Public Notice of Intent to Issue Permit" are also included.

The "Public Notice of Intent to Issue Permit" must be published one time only, as soon as possible, in the legal advertisement section of a newspaper of general circulation in the area affected, pursuant to the requirements Chapter 50, Florida Statutes. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within seven days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit.

Please submit any written comments you wish to have considered concerning the Department's proposed action to A. A. Linero, P.E., Administrator, New Source Review Section at the above letterhead address. If you have any other questions, please contact Jeff Koerner at 850/921-9536.

Sincerely,

for C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CHF/AAL/jfk

Enclosures

In the Matter of an
Application for Air Permit by:

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Authorized Representative:
Mr. Danny Pribble, V.P. of Operations

Compressor Station No. 31
Draft Air Permit No. 0970076-001-AC
Phase V Expansion
Osceola County

INTENT TO ISSUE AIR CONSTRUCTION PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit (copy of Draft Permit attached) for the proposed project as detailed in the application and the enclosed Technical Evaluation and Preliminary Determination, for the reasons stated below. The applicant, Florida Gas Transmission Company, applied on June 6, 2001 to the Department for a permit to construct a new natural gas compressor station (No. 31) to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida.

The Department has permitting jurisdiction under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-210, and 62-212 of the Florida Administrative Code (F.A.C.). The above actions are not exempt from permitting procedures. The Department has determined that an air construction permit is required to perform proposed work. The Department intends to issue this air construction permit based on the belief that the applicant has provided reasonable assurances to indicate that operation of these emission units will not adversely impact air quality, and the emission units will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Section 403.815, F.S., and Rule 62-110.106(7)(a)1, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Construction Permit. The notice shall be published one time only in the legal advertisement section of a newspaper of general circulation in the area affected. Rule 62-110.106(7)(b), F.A.C., requires that the applicant cause the notice to be published as soon as possible after notification by the Department of its intended action. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Department at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114, Fax: 850/ 922-6979). You must provide proof of publication within seven days of publication, pursuant to Rule 62-110.106(5), F.A.C. No permitting action for which published notice is required shall be granted until proof of publication of notice is made by furnishing a uniform affidavit in substantially the form prescribed in Section 50.051, F.S. to the office of the Department issuing the permit. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rules 62-110.106(9) and (11), F.A.C.

The Department will issue the final permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen (14) days from the date of publication of Public Notice of Intent to Issue Air Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen (14) days of receipt of this notice of intent.

Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S. must be filed within fourteen (14) days of publication of the public notice or within fourteen (14) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S. however, any person who asked the Department for notice of agency action may file a petition within fourteen (14) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

In addition to the above, a person subject to regulation has a right to apply for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Mediation is not available in this proceeding. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the EPA and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.

for C. H. Fancy, P.E., Chief
Bureau of Air Regulation

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Intent to Issue Air Construction Permit package (including the Public Notice of Intent to Issue Air Construction Permit, Technical Evaluation and Preliminary Determination, and the Draft Permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on 6/29/01 to the person(s) listed:

Mr. Danny Pribble, FGT*
Mr. Jim Thompson, FGT
Mr. Kevin McGlynn, McGlynn Consulting Co.
Mr. V. Duane Pierce, AQMcs
Mr. Len Kozlov, CD

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52, Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Barbara J. Friday 6/29/01
(Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Draft Air Permit No. 0970076-001-AC

Florida Gas Transmission Company
Proposed Osceola County Compressor Station No. 31
Phase V Expansion

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to the Florida Gas Transmission Company to construct a new compressor station (No. 31) for the existing natural gas pipeline. The proposed new facility will be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The applicant's authorized representative is Mr. Danny Pribble, Vice President of Operations. The applicant's mailing address is Florida Gas Transmission Company, 1400 Smith Street, Houston, TX 77002.

The proposed new facility will be a new minor source of air pollution and will consist of the following equipment: a gas-fired 2225 bhp reciprocating internal combustion compressor engine; a compressor building; an auxiliary building; a gas-fired 184 bhp emergency generator; a condensate storage tank; an oily water storage tank; and fugitive emissions from component leaks. The new station will result in the following potential emissions: 51.6 tons of carbon monoxide per year; 15.5 tons of nitrogen oxides per year; 0.7 tons of particulate matter per year; 1.8 tons of sulfur dioxide per year; and 20.0 tons of volatile organic compounds per year. Therefore, the project is not a major source of air pollution. The draft permit includes conditions that authorize construction of the new station and equipment, specify the capacities, require adequate records and reports, identify generally applicable regulatory requirements, and describe equipment that are exempt by rule.

The Department will issue the Final Permit with the attached conditions unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions. The Department will accept written comments concerning the proposed permit issuance action for a period of fourteen (14) days from the date of publication of this Public Notice of Intent to Issue Air Construction Permit. Written comments should be provided to the Department's Bureau of Air Regulation at 2600 Blair Stone Road, Mail Station #5505, Tallahassee, FL 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in the proposed agency action, the Department shall revise the proposed permit and require, if applicable, another Public Notice.

The Department will issue the permit with the attached conditions unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, F.S., before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below. Mediation is not available in this proceeding.

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A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of

material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

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Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Department of Environmental Protection
Bureau of Air Regulation
(111 S. Magnolia Drive, Suite 4)
2600 Blair Stone Road, MS #5505
Tallahassee, Florida, 32399-2400
Telephone: 850/488-0114

Department of Environmental Protection
Central District Office
Air Resources Section
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32308-3767
Telephone: 407/894-7555

The complete project file includes the application, Technical Evaluation and Preliminary Determination, Draft Permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Department's reviewing engineer for this project for additional information at the address and phone numbers listed above.

NOTICE TO BE PUBLISHED IN THE NEWSPAPER

TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION

PROJECT

Draft Air Construction Permit No. 0970076-001-AC
New Natural Gas Compressor Station No. 31
(Emissions Unit Nos. 001 and 002)

COUNTY

Osceola County

APPLICANT

Florida Gas Transmission Company
ARMS Facility ID No. 0970076
Osceola County Compressor Station No. 31

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
New Source Review Section

June 28, 2001

{Filename: FTG 31V TEPD.DOC}

1. GENERAL PROJECT INFORMATION

1.1 Applicant Name and Address

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Authorized Representative:
Danny Pribble, V.P. of Operations

1.2 Processing Schedule

05-24-01: Received the application for a minor source air pollution construction permit.

06-06-01: Received sufficient processing fee; application complete.

1.3 Facility Description and Location

The applicant proposes to construct a new natural gas compressor station to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The UTM coordinates are Zone 17, 456.5 km East, and 3135.5 km North. This is an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to a National Ambient Air Quality Standard (NAAQS).

1.4 Standard Industrial Classification Code (SIC)

SIC No. 4922 – Natural Gas Transmission

1.5 Regulatory Categories

Title III: Based on the application, the facility is not a major source of hazardous air pollutants (HAP).

Title IV: Based on the application, the facility is not subject to the acid rain provisions of the Clean Air Act.

Title V: Based on the application, the facility is not a Title V major source of air pollution.

PSD: Based on the application, the facility is not a major source of air pollution pursuant to the requirements of the Prevention of Significant Deterioration (PSD) of Air Quality Program, Rule 62-212.400, F.A.C.

NSPS: Based on the application, the facility will have no emissions units subject to any New Source Performance Standards in 40 CFR 60.

1.6 Project Description

The new facility will operate as a compressor station in Osceola County for Florida Gas Transmission Company's natural gas pipeline. It will consist of the following new emissions units:

EU ID	Emissions Unit Description
001	FGT No. 3101: This unit is a pipeline compressor engine consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608) with a capacity of 2225 bhp.
002	Miscellaneous Equipment: This equipment includes a compressor building, an auxiliary building, a gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12), a 4200 gallon (nominal) pipeline condensate storage tank, a 4200 gallon (nominal) oily water storage tank, and fugitive emissions from component leaks.

2. APPLICABLE REGULATIONS

2.1 State Regulations

This project is subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The Florida Statutes authorize the Department of Environmental Protection to establish rules and regulations regarding air quality as part of the Florida Administrative Code (F.A.C.). This project is subject to the applicable rules and regulations defined in the following Chapters of the Florida Administrative Code.

Chapter	Description
62-4	Permitting Requirements
62-204	Ambient Air Quality Requirements, PSD Increments, and Federal Regulations Adopted by Reference
62-210	Required Permits, Public Notice and Comments, Reports, Stack Height Policy, Circumvention, Excess Emissions, Forms and Instructions,
62-212	Preconstruction Review, PSD Requirements, and BACT Determinations
62-296	Emission Limiting Standards
62-297	Test Methods and Procedures, Continuous Monitoring Specifications, and Alternate Sampling Procedures

2.2 Potential Emissions

The following table summarizes emissions from this project based on information in the application.

Table 1A. Potential Emissions

Unit	CO	NOx	PM/PM10	SO2	VOC	HAPs
2225 bhp compressor Engine	55.9	15.0	0.7	1.8	19.3	3.7
184 bhp emergency generator	0.2	0.5	Negligible	Negligible	Negligible	Negligible
Condensate storage tank	0.0	0.0	0.0	0.0	Negligible	Negligible
Oily water tank	0.0	0.0	0.0	0.0	Negligible	Negligible
Fugitive component leaks	0.0	0.0	0.0	0.0	0.7	Negligible
TOTALS	56.1	15.5	0.7	1.8	20.0	3.7

Note: The potential emissions are based on operation of 8760 hours per year for the compressor engine and 500 hours per year for the emergency generator. SO_2 emissions are also based on the FERC limit of 10 grains of sulfur per 100 SCF of natural gas. The actual pipeline sulfur content is less than 1 grain per 100 SCF of natural gas.

The above table shows that the new facility is:

- Not a major source of air pollution pursuant to Rule 62-212.400 (PSD), F.A.C.;
- Not a major source of air pollution pursuant to Chapter 62-213 (Title V), F.A.C.; and
- Not a major source of hazardous air pollutants (HAPs) pursuant to Section 112(g) of the Clean Air Act.

3. EMISSIONS STANDARDS

3.1 Compressor Engine

The following text is an excerpt from Section 3.2 EPA's AP-42 emission factor document regarding natural gas-fired reciprocating engines.

"The primary criteria pollutants from natural gas-fired reciprocating engines are oxides of nitrogen (NOx), carbon monoxide (CO), and volatile organic compounds (VOC). The formation of nitrogen oxides is

exponentially related to combustion temperature in the engine cylinder. The other pollutants, CO and VOC species, are primarily the result of incomplete combustion. Particulate matter (PM) emissions include trace amounts of metals, non-combustible inorganic material, and condensible, semi-volatile organics which result from volatized lubricating oil, engine wear, or from products of incomplete combustion. Sulfur oxides are very low since sulfur compounds are removed from natural gas at processing plants. However, trace amounts of sulfur containing odorant are added to natural gas at city gates prior to distribution for the purpose of leak detection."

Based on the application, the compressor engine has the following emissions.

Pollutant	Emissions Factor	Equivalent Maximum Emissions	
		lb/hour [d]	TPY [e]
CO	2.6 g/bhp-hr [a]	12.75	55.9
NOx	0.7 g/bhp-hr [a]	3.43	15.0
SO2	10 grains/100 SCF of gas [b]	0.42	1.8
PM/PM10	0.00999 lb/mmBTU [c]	0.15	0.7
VOC	0.9 g/bhp-hr [a]	4.41	19.3

a. Emission factor based on vendor data.

b. Emission factor based on FERC limit for pipeline natural gas.

c. Emission factor based on AP-42, Table 3.2-2.

d. Equivalent maximum hourly emission rates are based on the permitted capacity of 2225 bhp (15.2 mmBTU per hour).

e. Equivalent maximum annual emission rates are based on 8760 hours per year of operation.

Based on the application, this unit is not subject to any specific federal or state regulations. The draft permit will include the following conditions:

- **Permitted Capacity**: The maximum heat input rate to the compressor engine shall not exceed 15.2 mmBTU per hour while producing approximately 2225 bhp based on a higher heating value (HHV) of 1040 BTU per SCF for natural gas. [Rule 62-210.200(PTE), F.A.C.]
- **Authorized Fuel**: The compressor engine shall fire only pipeline-quality natural gas with a maximum of 10 grains of sulfur per 100 standard cubic feet of natural gas. [Applicant Request; Rule 62-210.200(PTE), F.A.C.]
- **Restricted Operation**: Operation of the compressor engine is not limited (8760 hours per year). [Rule 62-210.200(PTE), F.A.C.]
- **Excess Emissions Prohibited**: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. {Permitting Note: A properly maintained compressor engine firing natural gas should have no visible emission plume.} [Rule 62-210.700(4), F.A.C.]
- **Construction Certification**: Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. The permittee shall provide certification that construction was completed in accordance with the application and note any deviations. [Rule 62-4.220, F.A.C.]

No emissions standards will be specified because nearly all emissions are less than half the Title V major source threshold of 100 tons per year. The draft permit will also include requirements applicable to all emission units.

3.2 Miscellaneous Equipment

Emergency Generator: This equipment is *categorically* exempt from the requirement to obtain an air construction permit in accordance with Rule 62-210.300(3)(a)20, F.A.C. Specifically, the emergency generator will use less than 4.4 million SCF of natural gas per year.

Condensate Storage Tank, Oily Water Tank, and Fugitive Component Leaks: Each piece of equipment is *generically* exempt from the requirement to obtain an air construction permit in accordance with Rule 62-210.300(3)(b)1, F.A.C. Specifically, each unit:

- Is not subject to any unit-specific applicable requirement.
- Will not emit nor have the potential to emit: 500 pounds per year or more of lead and lead compounds expressed as lead; 1,000 pounds per year or more of any hazardous air pollutant; 2,500 pounds per year or more of total hazardous air pollutants; or 5.0 tons per year or more of any other regulated pollutant.
- Will not cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.
- Will not cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a PSD source.

5. PRELIMINARY DETERMINATION

The Department makes a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations as conditioned by the draft permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, and the specific conditions of the draft permit. Jeff Koerner is the project engineer responsible for reviewing the application and drafting the permit. Additional details of this analysis may be obtained by contacting the project engineer at the Department's Bureau of Air Regulation at Mail Station #5505, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

DRAFT PERMIT

PERMITTEE:

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Authorized Representative:
Danny Pribble, V.P. of Operations

Osceola County Compressor Station No. 31
Air Permit No. 0970076-001-AC
Facility ID No. 0970076
SIC No. 4922
Permit Expires: June 1, 2002

PROJECT AND LOCATION

This permit authorizes the construction of a new pipeline compressor station (No. 31) to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. The new station will consist of a compressor building, an auxiliary building, 2225 bhp reciprocating compressor engine, a 184 bhp emergency generator, a pipeline condensate storage tank, and an oily water storage tank.

The UTM coordinates of the new station are: Zone 17, 456.5 km East, and 3135.5 km North.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to install the proposed equipment in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department.

CONTENTS

(DRAFT)

Howard L. Rhodes, Director
Division of Air Resources Management

(Date)

FACILITY AND PROJECT DESCRIPTION

The new facility will operate as a compressor station in Osceola County for Florida Gas Transmission Company's natural gas pipeline. After the project is complete, the facility will consist of the following emissions units.

EU ID	Emissions Unit Description
001	FGT No. 3102: This unit is a pipeline compressor engine consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608) with a capacity of 2225 bhp.
002	Miscellaneous Equipment: This equipment includes a compressor building, an auxiliary building, a gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12), a 4200 gallon (nominal) pipeline condensate storage tank, a 4200 gallon (nominal) oily water storage tank, and fugitive emissions from component leaks.

REGULATORY CLASSIFICATION

Title III: Based on the application, the facility is not a major source of hazardous air pollutants (HAP).

Title IV: Based on the application, the facility is not subject to the acid rain provisions of the Clean Air Act.

Title V: Based on the application, the facility is not a Title V major source of air pollution.

PSD: Based on the application, the facility is not a major source of air pollution pursuant to the requirements of the Prevention of Significant Deterioration (PSD) of Air Quality Program, Rule 62-212.400, F.A.C.

NSPS: Based on the application, the facility will have no emissions units subject to any New Source Performance Standards in 40 CFR 60.

RELEVANT DOCUMENTS

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action and are on file with the Department.

- Permit application received on 06-06-01 and additional information to make complete.

1. Permitting and Compliance Authority: Applications for permits to operate as well as all documents related to compliance activities (such as reports, tests, and notifications) shall be submitted to the Department's Central District Office at 3319 Maguire Boulevard, Suite 232, Orlando, Florida 32308-3767. The telephone number is 407/894-7555.

2. Appendices: The following Appendices are attached as part of this permit.

   - Appendix CF describes the format used to cite applicable rules and regulations as well as previous permitting actions.
   - Appendix GC specifies the general conditions applicable to all permittees. The general conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes. [Rule 62-4.160, F.A.C.]

3. Applicable Regulations, Forms and Application Procedures: Unless otherwise indicated in this permit, the construction and operation of the subject emissions unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The terms used in this permit have specific meanings as defined in the applicable chapters of the Florida Administrative Code. The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C. and follow the application procedures in Chapter 62-4, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations. [Rules 62-204.800, 62-210.300 and 62-210.900, F.A.C.]

4. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

5. Modifications: No emissions unit or facility subject to this permit shall be constructed or modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

6. Air Operation Permit: This permit authorizes construction of the permitted emissions units and initial operation to determine compliance with Department rules. The permittee shall apply for a minor source air operation permit at least sixty (60) days before the expiration of this construction permit, but no later than ninety (90) days after commencing operation. To apply for an operation permit, the applicant shall submit the appropriate application form, any required compliance test results, and such additional information as the Department may by law require. The application shall be submitted to the Department's Central District Office at the address listed above. [Rules 62-4.030, 62-4.050, and 62-4.220, F.A.C.]

A. FGT UNIT 3101, RECIPROCATING COMPRESSOR ENGINE

This section of the permit addresses the following new emissions unit.

Emissions Unit No. 001: Reciprocating Compressor Engine (FGT Unit No. 3101)
Description: This unit is a pipeline compressor engine consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608).
Fuel: The compressor engine fires pipeline-quality natural gas (SCC No 2-02-002-54). The maximum natural gas firing rate is approximately 14,570 cubic feet per hour based on a heat content of 1040 BTU per SCF of gas.
Capacity: The compressor engine produces 2225 bhp when firing approximately 15.2 mmBTU (HHV) per hour of natural gas.
Stack Parameters: When operating at 100% capacity, exhaust gases exit a 1.625 feet diameter stack that is 44.5 feet tall with a flow rate of approximately 14,816 acfm at 842° F.

CONSTRUCTION

1. Compressor Engine: The permittee is authorized to install, tune, operate and maintain a new Caterpillar Model No. G3608 reciprocating internal combustion engine as a natural gas pipeline compressor engine. The permittee identifies the gas turbine compressor engine as Unit No. 3101. [Applicant Request; Design]
2. Construction Certification: The permittee shall provide certification that construction was completed in accordance with the application and note any deviations. Such certification shall be included as part of the application for the initial air operation permit. [Rule 62-4.220, F.A.C.]
3. Unconfined Particulate Emissions: During the construction period, unconfined particulate matter emissions shall be minimized by dust suppressing techniques such as covering and/or application of water or chemicals to the affected areas, as necessary. [Rule 62-296.320(4)(c), F.A.C.]

PERFORMANCE RESTRICTIONS

4. Permitted Capacity: The maximum heat input rate to the compressor engine shall not exceed 15.2 mmBTU per hour while producing approximately 2225 bhp based on a higher heating value (HHV) of 1040 BTU per SCF for natural gas. [Rule 62-210.200(PTE), F.A.C.]
5. Authorized Fuel: The compressor engine shall fire only pipeline-quality natural gas. [Applicant Request; Rule 62-210.200(PTE), F.A.C.]
6. Restricted Operation: Operation of the compressor engine is not limited (8760 hours per year). [Rule 62-210.200(PTE), F.A.C.]
7. Excess Emissions Prohibited: Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. {Permitting Note: A properly maintained compressor engine firing natural gas should have no visible emission plume.} [Rule 62-210.700(4), F.A.C.]

OPERATION

8. Circumvention: The permittee shall not circumvent the air pollution control equipment or allow the emission of air pollutants without this equipment operating properly. [Rule 62-210.650, F.A.C.]
9. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing (1) best operational practices to minimize emissions are

adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

13. VOC or OS Emissions: No person shall store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

14. Objectionable Odor Prohibited: No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rules 62-296.320(2) and62-210.200(203), F.A.C.]

15. General Visible Emissions: No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20 percent opacity. [Rule 62-296.320(4)(b)1, F.A.C.]

RECORDS, REPORTS, AND NOTIFICATIONS

16. Records Retention: All measurements, records, and other data required by this permit shall be documented in a permanent, legible format and retained for at least three (3) years following the date on which such measurements, records, or data are recorded. Records shall be made available to the Department upon request. [Rules 62-4.160(14), F.A.C.]

17. Annual Operating Report: The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by March 1st of each year. [Rule 62-210.370(2), F.A.C.]

18. Notifications: The permittee shall provide the following notifications:

    a. If temporarily unable to comply with any of the conditions of the permit due to breakdown of equipment or destruction by fire, wind or other cause, the permittee shall notify each Compliance Authority as soon as possible, but at least within one working day, excluding weekends and holidays. The notification shall include: pertinent information as to the cause of the problem; steps being taken to correct the problem and prevent future recurrence; and, where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the permittee from any liability for failure to comply with the conditions of this permit or the regulations. [Rule 62-4.130, F.A.C.]

    b. Within 15 days of beginning construction, the permittee shall notify the Compliance Authority that construction has commenced. [Rule 62-4.070(3), F.A.C.]

    c. Within 15 days of completing construction, the permittee shall notify the Compliance Authority that construction has concluded. [Rule 62-4.070(3), F.A.C.]

    d. In case of excess emissions resulting from malfunctions, the permittee shall notify the Compliance Authority in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

B. UNREGULATED EMISSIONS UNITS

This permit recognizes the following miscellaneous unregulated equipment.

Emissions Unit No. 002: Miscellaneous Equipment
Ancillary equipment includes: • A gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12); • A 4200 gallon (nominal) oily water storage tank; • A 4200 gallon (nominal) pipeline condensate storage tank; • A compressor building and an auxiliary building; and • Fugitive emissions from component leaks (from valves, pumps, flanges, etc.)

In accordance with Rule 62-210.300(3) (Exemptions), F.A.C., the following equipment is exempt from air pollution construction permitting requirements.

Emergency Generator

(a) Categorical Exemptions

20. One or more emergency generators located within a single facility provided:
    a. None of the emergency generators is subject to the Federal Acid Rain Program; and
    b. Total fuel consumption by all such emergency generators within the facility is limited to 32,000 gallons per year of diesel fuel, 4,000 gallons per year of gasoline, 4.4 million standard cubic feet per year of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.

Condensate Storage Tank, Oily Water Tank, and Fugitive Component Leaks

(b) Generic and Temporary Exemptions.

1. Generic Emissions Unit Exemption. An emissions unit or pollutant-emitting activity that is not entitled to a categorical exemption pursuant to Rule 62-210.300(3)(a), F.A.C., shall be exempt from the permitting requirements of this chapter, Chapter 62-212, F.A.C., and Chapter 62-4, F.A.C., if it meets all of the following criteria:
    a. It would be subject to no unit-specific applicable requirement.
    b. It would neither emit nor have the potential to emit:
        (i) 500 pounds per year or more of lead and lead compounds expressed as lead;
        (ii) 1,000 pounds per year or more of any hazardous air pollutant;
        (iii) 2,500 pounds per year or more of total hazardous air pollutants; or
        (iv) 5.0 tons per year or more of any other regulated pollutant.
    c. Its emissions, in combination with the emissions of other units and activities at the facility, would not cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.
    d. In the case of a proposed new emissions unit at an existing facility, the emissions of such unit, in combination with the emissions of any other proposed new or modified units and activities at the facility, would not result in a modification subject to the preconstruction review requirements of Rule 62-204.800(10)(d)2, 62-212.400 or 62-212.500, F.A.C.
    e. In the case of a proposed new pollutant-emitting activity, such activity would not constitute a modification of any existing non-exempt emissions unit at a non-Title V source or any existing non-insignificant emissions unit at a Title V source.

CONTENTS

SECTION 4. APPENDIX CF
CITATION FORMAT

The following examples illustrate the format used in the permit to identify applicable permitting actions and regulations.

REFERENCES TO PREVIOUS PERMITTING ACTIONS

Old Permit Numbers

Example: Permit No. AC50-123456 or Air Permit No. AO50-123456

Where: "AC" identifies the permit as an Air Construction Permit
"AO" identifies the permit as an Air Operation Permit
"123456" identifies the specific permit project number

New Permit Numbers

Example: Permit Nos. 099-2222-001-AC, 099-2222-001-AF, 099-2222-001-AO, or 099-2222-001-AV

Where: "099" represents the specific county ID number in which the project is located
"2222" represents the specific facility ID number
"001"identifies the specific permit project
"AC" identifies the permit as an air construction permit
"AF" identifies the permit as a minor federally enforceable state operation permit
"AO" identifies the permit as a minor source air operation permit
"AV" identifies the permit as a Title V Major Source Air Operation Permit

PSD Permit Numbers

Example: Permit No. PSD-FL-317

Where: "PSD" means issued pursuant to the Prevention of Significant Deterioration of Air Quality
"FL" means that the permit was issued by the State of Florida
"317" identifies the specific permit project

RULE CITATION FORMATS

Florida Administrative Code (F.A.C.)

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

Means: Title 62, Chapter 213, Rule 205 of the Florida Administrative Code

Code of Federal Regulations (CFR)

Example: [40 CRF 60.7]

Means: Title 40, Part 60, Section 7

GENERAL CONDITIONS

The permittee shall comply with the following general conditions from Rule 62-4.160, F.A.C.

1. The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.

2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.

3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.

4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:

   a. Have access to and copy and records that must be kept under the conditions of the permit;
   b. Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
   c. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

   Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

   a. A description of and cause of non-compliance; and

   b. The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

   The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida

Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

    a. Determination of Best Available Control Technology (NA);
    b. Determination of Prevention of Significant Deterioration (NA); and
    c. Compliance with New Source Performance Standards (NA).

14. The permittee shall comply with the following:

    a. Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

    b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

    c. Records of monitoring information shall include:

        1) The date, exact place, and time of sampling or measurements;
        2) The person responsible for performing the sampling or measurements;
        3) The dates analyses were performed;
        4) The person responsible for performing the analyses;
        5) The analytical techniques or methods used; and
        6) The results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

Memorandum

Florida Department of
Environmental Protection

TO: ~~Clair Fancy, Chief, BAR~~ by ag

THROUGH: Al Linero, Administrator - New Source Review Section aal 6/29

FROM: Jeff Koerner, New Source Review Section JK

DATE: July 2, 2001

SUBJECT: Draft Air Construction Permit No. 0970076-001-AC
Florida Gas Transmission Company
Osceola County Compressor Station No. 31
Phase V Expansion

Attached for your review are the following items:

- Intent to Issue Permit and Public Notice Package;
- Technical Evaluation and Preliminary Determination;
- Draft Permit; and
- PE Certification

The applicant proposes to construct a new compressor station to be located in Osceola County, which will be a minor source of air pollution. The Technical Evaluation and Preliminary Determination provides a detailed description of the project, rule applicability, and permit conditions. The P.E. certification briefly summarizes proposed project. Day #90 is September 3, 2001. I recommend your approval of the attached Draft Permit for this project.

CHF/AAL/jfk

Attachments

Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
New Source Review Section
2600 Blair Stone Road, MS #5505
Tallahassee, Florida, 32399-2400

P.E. CERTIFICATION STATEMENT

PERMITTEE

Florida Gas Transmission Company
1400 Smith Street
Houston, TX 77002

Draft Air Permit No.0970076-001-AC
Osceola County Compressor Station No. 31
Phase V Expansion

PROJECT DESCRIPTION

The applicant proposes to construct a new natural gas compressor station to be located on Osceola Parkway approximately 2.5 miles west of U.S. Route 17 in Osceola County, Florida. It will consist of the following new equipment: a pipeline compressor engine (FGT Unit No. 3101) consisting of a gas-fired reciprocating internal combustion engine (Caterpillar Model No. G3608) with a capacity of 2225 bhp; a compressor building; an auxiliary building; a gas-fired 184 bhp emergency generator (Cummins Model No. GTA-12); a 4200 gallon (nominal) pipeline condensate storage tank; a 4200 gallon (nominal) oily water storage tank; and fugitive emissions from component leaks. Based on the application, the new facility is:

- Not a major source of air pollution pursuant to Rule 62-212.400 (PSD), F.A.C.;
- Not a major source of air pollution pursuant to Chapter 62-213 (Title V), F.A.C.; and
- Not a major source of hazardous air pollutants (HAPs) pursuant to Section 112(g) of the Clean Air Act.

Based on the application, the compressor engine is not subject to any unit-specific regulatory requirement in Chapter 62-296, F.A.C. or 40 CFR Parts 60, 61, or 63. The emergency generator is *categorically* exempt from the requirement to obtain an air construction permit in accordance with Rule 62-210.300(3)(a)20, F.A.C. Specifically, the emergency generator will use less than 4.4 million SCF of natural gas per year. The condensate storage tank, the oily water tank, and the fugitive component leaks are each *generically* exempt from the requirement to obtain an air construction permit in accordance with Rule 62-210.300(3)(b)1, F.A.C.

The draft permit includes conditions that authorize construction of the new station and equipment, specify the capacities, require adequate records and reports, identify generally applicable regulatory requirements, and describe the equipment that are exempt by rule.

I HEREBY CERTIFY *that the air pollution control engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).*

STATE OF FLORIDA JEFFERY F. KOERNER PROFESSIONAL ENGINEER

Jeffery J. Koerner

6-28-01

Jeffery F. Koerner, P.E. (Date)
Registration Number: 49441

Florida Gas Transmission Company

Capital Projects Field Office, 111 Kelsey Lane, Ste. A., Tampa, FL 33619
813.655.7441 / 800.381.1477

June 6, 2000

Ms. Patty Adams
Bureau of Air Regulation
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: Compressor Station No. 31, Osceola County
Facility ID 0970076

Dear Ms. Adams:

Please find enclosed check number 93429 in the amount of $4,500 for the processing of Florida Gas Transmission's Compressor Station No. 31 application.

Should additional information be necessary, please do not hesitate to contact me at (800) 381-1477.

Sincerely,

Heather Kendrick for

Jim Thompson
Environmental Consultant
For Florida Gas Transmission Company

Department of Environmental Protection

Jeb Bush
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

David B. Struhs
Secretary

May 30, 2001

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

Mr. Jim Thompson
Environmental Project Manager
Florida Gas Transmission Company Phase V Project
111 Kelsey Lane, Suite A
Tampa, Florida 33619

RE: Compressor Station No. 31, Osceola County
Facility ID 0970076

Dear Mr. Thompson:

The Bureau of Air Regulation received your May 21, 2001, request to construct the above referenced facility. Since a construction permit application for a minor source requires a processing fee pursuant to Chapter 62-4.050(4)(a), F.A.C., you will need to submit a $4,500 fee before we can begin reviewing your application. If you have any questions, please call me at (850)921-9505.

Sincerely,

Patty Adams

Patty Adams
Bureau of Air Regulation

/pa

cc: J. Koerner

Florida Gas Transmission Company

Capital Projects Field Office, 111 Kelsey Lane, Ste. A., Tampa, FL 33619
813.655.7441 / 800.381.1477

May 21, 2001

Mr. Clair H. Fancy, P.E.
Bureau of Air Regulation
Florida Department of Environmental Protection
Twin Towers Office Bldg.
2600 Blairstone
Tallahassee, FL 32399-2400

Reference: Facility: 0390029
Compressor Station No. 31, Osceola County

Dear Mr. Fancy:

Subject: Application for Air Construction Permit

Florida Gas Transmission Company (FGT) is proposing to construct a new natural gas pipeline compressor station. This facility will be located in Osceola County and designated as Compressor Station No. 31. The facility will consist of one 2,225 bhp reciprocating compressor engine and supporting equipment. The new facility will be a minor source under Title V and New Source Review regulations. Therefore, only a state construction permit is required.

Enclosed is an Application for an Air Construction Permit for the proposed facility.

If you have any questions or need additional information, please call me at (800) 381-1477.

Sincerely,

Jim Thompson
Environmental Project Manager
For Florida Gas Transmission Company Phase V Project

CC: James Alexander, Phase V w/o attachments
Dan Pribble, w/o attachments
Frank Diemont
V. Duane Pierce, AQMcs

Florida Gas Transmission Company

Phase V Expansion Project

Compressor Station No. 31

APPLICATION
For
AIR CONSTRUCTION
PERMIT

May 2001

Prepared by AQMcs, LLC

Table of Contents

List of Tables

1.0 INTRODUCTION

Florida Gas Transmission Company (FGT), a Delaware Corporation and an ENRON/EL PASO affiliate of Houston, Texas, is proposing to construct a new natural gas pipeline compression facility near Kissimmee, Florida (Compressor Station No. 31). This proposed facility is part of FGT's Phase V Expansion Project, aimed at increasing the supply capacity of FGT's network servicing domestic, commercial, and industrial customers. The scope of work for the Phase V Expansion Project includes expansion through the addition of a state-of-the-art compressor engine at this new compressor station. Compressor Station No. 31 is located in Osceola County on the Osceola Parkway approximately 2.5 miles west of U.S. Route 17. Figure 1-1 shows the proposed location of the new compressor station.

The proposed expansion consists of the installation of a new 2,225 brake horsepower (bhp), natural-gas-fired, reciprocating compressor engine. Under current federal and state air quality regulations, the proposed new facility will be a minor source under PSD definitions.

This application contains three additional sections. Descriptions of the proposed new engine and supporting facilities are presented in Section 2.0. The air quality review requirements and applicability of state and federal regulations are discussed in Section 3.0 and references are included in Section 4.0.

FDEP permit application forms are presented in Attachment A. Attachment B contains a plot plan of the new facility, Attachment C contains vendor information and Attachment D contains emission calculations.

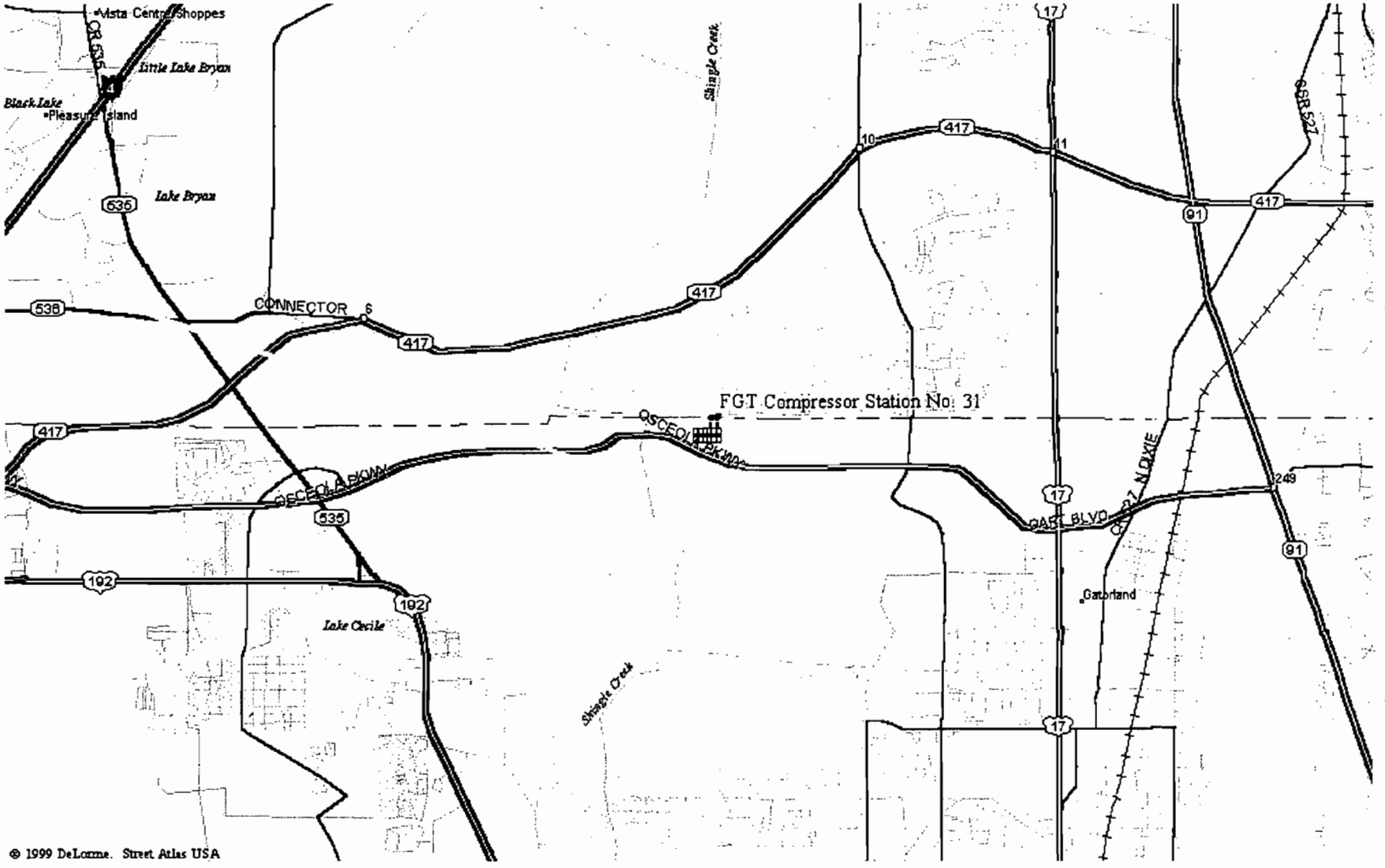


Figure 1-1 Location Map

2.0 PROJECT DESCRIPTION

A plot plan of FGT's Compressor Station No. 31, showing the location of the plant boundaries and the location of the modified engines, is presented in Attachment B. The following sections provide a description of the proposed project.

2.1 Proposed New Compressor Station

FGT's proposed Compressor Station No. 31 will consist of one 2,225 bhp natural-gas-fired reciprocating internal combustion (IC) compressor engine and associated support equipment. FGT proposes to construct this compressor station, as part of the Phase V Expansion Project. This facility is necessary to increase the volumetric delivery capacity necessary to meet both short and long-term demands for natural gas.

2.1.1 New Compressor Engine

The new engine will be a Caterpillar 3608 compressor engine rated at 2,225 bhp. Fuel will be exclusively natural gas from the FGT's natural gas pipeline. Engine specifications and stack parameters for the proposed engine are presented in Table 2-1.

Hourly and annual emissions of regulated pollutants from the proposed engine under normal operating conditions are presented in Table 2-2. Emissions of oxides of nitrogen (NO_X, carbon monoxide (CO) and non-methane hydrocarbons (NMHC) are based on the engine manufacturer's supplied data (See Attachment C).

Typically, engine vendors do not provide information on particulate matter (PM) or sulfur dioxide (SO2) emissions; therefore, particulate matter emissions are based upon USEPA publication AP-42 Table 3.2-2 (USEPA, 2000) and emissions of SO2 are based on FGT's Federal Energy Regulatory Commission (FERC) certificate limit of 10 grains sulfur per 100 cubic feet of natural gas. Hazardous air pollutant (HAP) emissions are based upon the Gas Research Institute's GRI HapCalc 3.1 software.

Table 2-1 Proposed Compressor Engine 3101 Specifications and Stack Parameters

Parameter	Design
Compressor Engine	3101
Type	Gas Reciprocating Engine
Manufacturer	Caterpillar
Model	G3608
Unit Size	2,225 bhp
Specific Heat Input	6,810 Btu/bhp-hr
Maximum Fuel Consumption [a]	0.01457 MMscf/hr
Speed	1,000 rpm
Stack Parameters	
Stack Height	44.5 ft
Stack Diameter	1.625 ft ea
Exhaust Gas Flow	14,816 acfm
Exhaust Temperature	842 °F
Exhaust Gas Velocity	112.7 ft/sec

NOTE:

acfm	=	actual cubic feet per minute.
bhp	=	brake horsepower.
Btu/hp-hr	=	British thermal units per brake horsepower per hour.
°F	=	degrees Fahrenheit.
ft	=	feet.
ft/sec	=	feet per second.
MMscf/hr	=	million standard cubic feet per hour
rpm	=	revolutions per minute.

[a] Based on heating value for natural gas of 1040 British thermal units per standard cubic foot (Btu/scf).

Table 2-2 Emissions from FGT's Proposed 3101 Compressor Engine

Pollutant	Emission Factor	Reference	Emissions	
			lb/hr	TPY
Nitrogen Oxides	0.7 g/hp-hr	Manufacturer Data	3.43	15.0
Carbon Monoxide	2.6 g/hp-hr	Manufacturer Data	12.75	55.9
Volatile Organic Compounds (non methane)	0.9 g/hp-hr	Manufacturer Data	4.41	19.3
Particulate Matter*	0.00999 lb/MMBtu	AP-42, Table 3.2-2	0.15	0.7
Sulfur Dioxide*	10 grains/100 scf	FERC Limit	0.42	1.8
HAPs	Various see Attachment D	GRI HapCalc 3.0	0.84	3.7

* Emissions based on vendor provided fuel use value plus 10 per cent

2.1.2 Support Equipment

In addition to the compressor engine, some support equipment will be installed at the site. They include:

- A compressor building
- An auxiliary building
- One gas-fired emergency generator
- One 100 bbl hydrocarbon storage tank
- One 100 bbl oily water storage tank

The locations of the structures are shown on the facility plot plan contained in Attachment B. The compressor building, housing the Caterpillar 3608 engine, has approximate dimensions of 40 feet wide by 60 feet long by 29.5 feet high. The approximate dimensions of the auxiliary building will be 24 feet wide by 50 feet long by 17 feet high. Emission calculations for support equipment can be found in Attachment D.

2.1.2.1 New Emergency Generator

The emergency generator will be powered by a natural gas fired, Cummins Model GTA-12 rated at 120 kW (184 bhp). This is an existing emergency generator that is currently located at Compressor Station No. 26 and was originally installed at that location in 1991. Engine specifications and stack parameters for the proposed engine are presented in Table 2-3 and emissions are presented in Table 2-4.

2.1.2.2 New Storage Tanks

Two new storage tanks will be installed at Compressor Station No. 31. They are listed in Table 2-5 along with specifications. Emissions were calculated with the U.S EPA's (USEPA) Tank 3.0 program. Details of the calculations can be found in Attachment D.

2.1.2.3 Fugitive Emissions

Potential new emissions from Compressor Station No. 31 also include fugitive emissions from the new valves and flanges that will be in gas service. These fugitive emissions have been estimated using USEPA factors for components in gas service at oil and gas facilities (EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission

Estimates"). Table 2-6 lists the quantities of existing and new components to be added as part of the Phase IV Expansion Project and an estimate of the fugitive emissions from these sources.

Table 2-3 Proposed Emergency Generator Engine Specifications and Stack Parameters

Parameter	Design
Compressor Engine	Gen01
Type	Natural Gas, Lean Burn Reciprocating
Manufacturer	Cummins-Onan
Model	GTA-12
Unit Size	120 kW
Specific Heat Input	Not Available
Stack Parameters	
Stack Height	33 ft
Stack Diameter	0.33 ft
Exhaust Gas Flow	1250 acfm
Exhaust Temperature	1150 °F

NOTE:

acfm	=	actual cubic feet per minute.
bhp	=	brake horsepower.
Btu/bhp-hr	=	British thermal units per brake horsepower per hour.
°F	=	degrees Fahrenheit.
Ft	=	feet.
KW	=	kilowatts
scf/h	=	standard cubic feet per hour

Table 2-4 Emissions from FGT's Proposed Generator Engine

Pollutant	Emission Factor	Reference	Generator Emissions*	
			lb/hr	TPY
Nitrogen Oxides	1.78 lb/hr	Manufacturer Data	1.78	0.45
Carbon Monoxide	0.61 lb/hr	Manufacturer Data	0.61	0.15
Volatile Organic Compounds (non methane)	0.024 lb/hr	Manufacturer Data	0.024	0.01

* Based on 500 hours of operation per year

Table 2-5 New Storage Tanks for Compressor Station No. 31

Tank Name	Condensate Tank	Oily Water Tank
Type of Tank	Vertical, Cone Roof	Vertical, Cone Roof
Contents	Hydrocarbon Liquids	Drain water from washings; oily water
Dimensions	9'-6" dia x 8'-0" high	9'-6" dia x 8'-0" high
Capacity	4,200 Gallons	4,200 Gallons
Paint Color	White	White
Maximum Annual Throughput	3000 Gallons	3000 Gallons
VOC Emissions (tpy)	0.01	<0.001

Table 2-6 VOC Fugitive Emission Calculations and Summary

Component	Service	Component Count	Emissions * Factor (ton/yr)	NM/NE Fraction	Emissions (ton/yr)
Valves	Gas	119	0.0434606	0.05	0.26
Connector	Gas	0	0.0019316	0.05	0.00
Flanges	Gas	122	0.0037666	0.05	0.02
Open-Ended Line	Gas	47	0.0193158	0.05	0.05
Pumps	Gas	0	0.023179	0.05	0.00
Other	Gas	0	0.0849895	0.05	0.00
Valves	Light Oil	10	0.0241448	1.00	0.24
Connector	Light Oil	0	0.0020282	1.00	0.00
Flanges	Light Oil	24	0.0010624	1.00	0.03
Open-Ended Line	Light Oil	4	0.0135211	1.00	0.05
Pumps	Light Oil	0	0.1255527	1.00	0.00
Other	Light Oil	0	0.0724343	1.00	0.00
Valves	Heavy Oil	26	0.0000811	1.00	0.00
Connector	Heavy Oil	0	0.0000724	1.00	0.00
Flanges	Heavy Oil	32	0.0000038	1.00	0.00
Open-Ended Line	Heavy Oil	3	0.0013521	1.00	0.00
Other	Heavy Oil	5	0.0002994	1.00	0.00
				TOTAL:	**0.66**

*"EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"

2.2 Emissions Summary

The total changes in emissions resulting from the project are listed on Table 2-7. As can be seen from the table, the total new emissions are not significant under PSD regulations. The calculations used to estimate these emissions are presented in Attachment D.

Table 2-7 Potential Annual Emissions (tpy) Summary

SOURCE ID	DESCRIPTION	NO_x	CO	VOC[a]	SO_2	PM
	NEW EMISSION SOURCES					
3101	2,225 bhp Recip. Engine	15.0	55.9	19.3	1.8	0.7
GEN01	184 bhp Recip. Engine	0.5	0.2	0.0	0.0	0.0
	OTHER SOURCES: [b]	0.0	0.0	0.7	0.0	0.0
	NEW EMISSIONS TOTALS:	**15.5**	**56.1**	**20**	**1.8**	**0.7**

(a) VOC = Non-methane HC
(b) Other Sources Includes ancillary equipment, storage tanks and equipment leaks

3.0 REGULATORY ANALYSIS

This section presents a review of federal and Florida State air quality regulations, which govern the operations and proposed modifications to be conducted at Compressor Station No. 31.

3.1 Federal Regulations Review

The federal regulatory programs administered by the USEPA have been developed under the authority of the Clean Air Act. The following subsections review the essential elements of the federal regulatory program and the impact they have on the operations and proposed modifications at Compressor Station No. 31.

3.1.1 Classification of Ambient Air Quality

The 1970 Amendments to the CAA gave the USEPA specific authority to establish the minimum level of air quality that all states would be required to achieve. These minimum values or standards were developed in order to protect the public health (primary) and welfare (secondary). The federally promulgated standards and additional state standards are presented on Table 3-1.

Areas of the country that have air quality equal to or better than these standards (i.e., ambient concentrations less than a standard) are designated as "Attainment Areas", while those where monitoring indicates air quality is worse than the standards are known as "Non-attainment Areas." The designation of an area has particular importance for a proposed project as it determines the type of permit review to which the application will be subject.

Major new sources or major modifications to existing major sources located in attainment areas are required to obtain a PSD permit before initiation of construction. Similar sources located in areas designated as non-attainment or that adversely impact such areas undergo more stringent Non-attainment New Source Review (NNSR). In either case, it is necessary, as a first step, to determine the air quality classification of a project site.

All areas of all states are classified as either attainment, non-attainment or unclassifiable for each criteria pollutant. Osceola County is designated as unclassifiable or attainment for all criteria pollutants. These designations were obtained from 40 CFR 81.310.

Table 3-1 National and State Ambient Air Quality Standards ($\mu g/m^3$)

POLLUTANT	AVERAGING PERIOD	EPA STANDARDS	
		PRIMARY	SECONDARY
PM_{10}	24-hour[1]	150	150
	Annual[2]	50	50
SO_2	3-hour[1]	---	1,300
	24-hour[1]	365	---
	Annual[2]	80	---
CO	1-hour[1]	---	40,000
	8-hour[1]	10,000	---
NO_2	Annual[2]	100	100
O_3	1-hour[3]	235	235

1) Not to be exceeded more than once per year.
2) Never to be exceeded.
3) Not to be exceeded on more than 3 days over 3 years.

Sources: 40 CFR 50; 36FR22384

The designation of Unclassifiable indicates that there is insufficient monitoring data to prove that the area has attained the federal standards; however, the limited data available indicate that the standard has been achieved. Areas with this classification are treated as attainment areas for permitting purposes.

3.1.2 Prevention of Significant Deterioration (PSD) Applicability

The 1977 CAA Amendments required proposed new major stationary sources or existing sources planning a major modification in an area that has attained the National AAQS, to conduct a preconstruction review that includes a detailed analysis of the impacts from the source's emissions. The Federal air quality permitting regulations for attainment areas are codified in the Code of Federal Regulations (CFR), Title 40- Protection of the Environment, Part 52.21 - Prevention of Significant Deterioration (40 CFR 52.21).

For the PSD regulations to apply to a given project, the proposed location must be in an area that has been classified as attainment or as unclassifiable for a particular pollutant. Osceola County is considered an attainment area for all criteria pollutants. Additionally, a project's potential to emit must constitutes a major stationary source or major modification to an existing

major stationary source.

A major stationary source is defined as either one of the 28 sources identified in 40 CFR 52.21 that has a potential to emit 100 tons or more per year of any regulated pollutant, or any other stationary source that has the potential to emit 250 tons or more per year of a regulated pollutant. "Potential to emit" is determined on an annual basis after the application of air pollution control equipment, or any other federally enforceable restriction. "Significant" emission rates are defined as amounts equal to or greater than the emission rates given in Table 3-2.

Since Compressor Station No. 31 is not one of the 28 named source categories, and will not emit >250 TPY of any regulated pollutant, it is considered a minor source and therefore a PSD permit is not required.

Table 3-2 Applicability of PSD Significant Emission Rates

Pollutant	Emission Rate Tons/Year
Carbon Monoxide	100
Nitrogen Oxides	40
Sulfur Dioxide	40
Particulate Matter (PM/PM_{10})	25/15
Ozone (VOC)	40
Lead	0.6
Fluorides	3
Reduced Sulfur including Hydrogen Sulfide	10
Total Reduced Sulfur including Hydrogen Sulfide	10
Sulfuric Acid Mist	7
Lead	0.6
Mercury	0.1
VOC = Volatile Organic Compounds Sources:40 CFR 52.21(b)(23)	

3.1.3 Applicability of New Source Performance Standards (NSPS)

Standards of Performance for New sources are published in 40 CFR 60. All Standards apply to all new sources within a given category, regardless of geographic location or ambient air quality at the location. There are no new source performance standards applicable to the new engine at Compressor Station No. 31.

The new tanks at Compressor Station No. 31 are potentially subject to 40 CFR Subpart Kb for volatile organic liquid storage vessels. This Subpart is not applicable since both tanks are smaller (15.9 m^3) than the minimum applicable size of 40 cubic meters.

3.1.4 Good Engineering Practice (GEP) Stack Height Analysis

The 1977 CAA Amendments require that the emission limitation required for control of any pollutant not be affected by a stack that exceeds GEP height. Further, no dispersion credit is given during air quality modeling for stacks that exceed GEP. GEP stack height is defined as the highest of:

- 65 meters; or
- a height established by applying the formula

  HGEP = H + 1.5 L

  Where:
  HGEP = GEP Stack Height,
  H = Height of the structure or nearby structure, and
  L = Lesser dimension (height or projected width) of the nearby structure; or

- a height demonstrated by fluid modeling or field study.

A structure or terrain feature is considered nearby if a stack is within a distance of five times the structure's height or maximum projected width. Only the smaller value of the height or projected width is used and the distance to the structure cannot be greater than 0.8 kilometers. Although GEP stack height regulations require that the stack height used in modeling for determining compliance with National AAQS and PSD increments not exceed GEP stack height, the actual stack height may be greater.

The stack height regulations also increase GEP stack height beyond that resulting from the formula in cases where plume impaction occurs. Plume impaction is defined as concentrations

measured or modeled to occur when the plume interacts with elevated terrain. Elevated terrain is defined as terrain that exceeds the height calculated by the GEP stack height formula. Because terrain in the vicinity of the project site is generally flat, plume impaction was not considered in determining the GEP stack height.

The stacks at Compressor Station No. 31 for engine 3101 will be 44.5 feet (13.56 meters) tall. Based on the proposed building dimensions, the calculated GEP stack height is less than 65 meters; therefore, the default GEP stack height of 65 meters applies. Since the stack is less than GEP stack height, it complies with the regulatory requirement.

3.1.5 Applicability of National Emission Standards for Hazardous Air Pollutants (NESHAPS)

Compressor Station No. 31 is potentially subject to 40 CFR 63 Subpart HHH for Natural Gas Transmission and Storage Facilities; however, the only affected facilities are glycol dehydrators and Compressor Station No. 31 does not have any glycol dehydrators.

3.2 Florida State Air Quality Regulations

Rule 62, F.A.C., contains the air quality rules and regulations for the State of Florida. The primary federal regulations that affect Compressor Station No. 31 have been incorporated into or are referenced by these rules. The significant state regulations that are applicable to the new emission units are briefly listed below.

3.2.1 Rule 62-210.300 Permits Required

FGT is required to obtain a construction permit prior to construction of new emission units. This requirement is being met by the submittal of this application.

3.2.2 Rule 62-204.240 Ambient Air Quality Standards

FGT must not violate any of the ambient air quality standards listed under this rule. The proposed new emissions will not violate any air quality standards. Potential NOx emissions and impacts will be decreased.

3.2.3 Rule 62-296.320(2) Objectionable Odors

This rule prohibits the discharge of pollutants that will cause or contribute to an objectionable odor. There will be no odors from the proposed changes.

3.2.4 Rule 62-296.320(4)(b)1 General Particulate Emission Limiting Standards.

FGT is prohibited from allowing the new compressor engine to discharge into the atmosphere the emissions of air pollutants, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). The new and modified engines will not violate this standard.

3.2.5 Rule 62-210.300(3)(a) Exempt Emissions Units and/or Activities.

The emissions from the fugitive leak emissions are insignificant sources and are exempt from the permitting requirements of Chapter 62-210 Stationary Sources - General Requirements, 62-213 Operation Permits For Major Sources Of Air Pollution and 62-4 Permits.

4.0 REFERENCES

Gas Research institute, 1999. GRI-HAPCalc Software Version 3.0, Radian International, LLC.

U.S. Environmental Protection Agency (USEPA). 1980. PSD Workshop Manual. Research Triangle Park, NC.

U.S. Environmental Protection Agency (USEPA). 2000. Compilation of Air Pollutant Emission Factors, Volume I: Stationary Point and Area Sources (5th Ed.) AP-42. Supplement E, Research Triangle Park, NC.

Attachment A

DEP Forms

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - NON-TITLE V SOURCE

See Instructions for Form No. 62-210.900(3)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Florida Gas Transmission Company	
2. Site Name: Compressor Station No. 31	
3. Facility Identification Number: [X] Unknown	
4. Facility Location: Street Address or Other Locator: Osceola Parkway approximately 2.5 miles west of U.S. Route 17	
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [ ] Yes [X] No

Application Contact

1. Name and Title of Application Contact: Jim Thompson, Environmental Project Manager for Florida Gas Transmission Co. – Phase V Expansion Project
2. Application Contact Mailing Address: Organization/Firm: Florida Gas Transmission Company Street Address: 111 Kelsey Lane, Ste. A City: Tampa State: FL Zip Code: 33619
3. Application Contact Telephone Numbers: Telephone: (800) 381-1477 Fax: (813) 655-3951

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial non-Title V air operation permit for one or more existing, but previously unpermitted, emissions units.

[ ] Initial non-Title V air operation permit for one or more newly constructed or modified emissions units.

Current construction permit number:_____

[ ] Non-Title V air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number:_____

Operation permit number to be revised:_____

[ ] Initial non-Title V air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

_____

[ ] Non-Title V air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units.

Operation permit number to be revised:_____

Reason for revision:_____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[X] Air construction permit to construct or modify one or more emissions units.

[ ] Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.

[ ] Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Danny Pribble, Vice President, Operations

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: Florida Gas Transmission Company
   Street Address: P.O. Box 1188
   City: Houston State: TX Zip Code: 77251

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: (713) 345-7162 - Fax: (713) 646-3201

4. Owner/Authorized Representative Statement:

   I, the undersigned, am the owner or authorized representative of the facility addressed in this application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

   Signature Date 5/21/01

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Kevin McGlynn
   Registration Number: 50908

2. Professional Engineer Mailing Address:
   Organization/Firm: McGlynn Consulting Company
   Street Address: 1967 Commonwealth Lane
   City: Tallahassee State: FL Zip Code: 32303

3. Professional Engineer Telephone Numbers:
   Telephone: (850)380-5035 Fax: (850) 350-5002

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.

P.E.

Signature

May 17, 2001

Date

KEVIN [illegible] CERTIFICATE NO. 60000 STATE OF FLORIDA PROFESSIONAL ENGINEER

Seal

Attach any exception to certification statement.

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
	Caterpillar G3608 reciprocating compressor engine rated at 2,225 hp, Engine 3101	AC1C	$4,500.00
	Emergency generator, 184 hp Cummins-Onan GTA-12, Reciprocating engine,GEN01		
	Fugitive emissions from equipment leaks		
	4200 gallon Oily Water Tank		
	4200 gallon Pipeline Condensate Tank		

Application Processing Fee

Check one: [X] Attached - Amount: $__4,500.00_____ [ ] Not Applicable_

Construction/Modification Information

1. Description of Proposed Project or Alterations:

Construction of a new gas pipeline compressor station.

Installation of a new gas fired Caterpillar G3608 reciprocating compressor engine rated at 2,225 horsepower.

Installation of a natural gas-fired emergency generator rated at 120 kW (184 hp) Cummins-Onan Model GTA-12.

Installation of a 4200 gallon tank for oily water storage and a 4200 gallon pipeline condensate storage tank.

2. Projected or Actual Date of Commencement of Construction: 10/17/01

3. Projected Date of Completion of Construction: 01/17/02

Application Comment

This proposed new facility is part of FGT's Phase IV expansion project, aimed at increasing the supply capacity of FGT's network servicing domestic, commercial, and industrial customers in Florida.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17	East (km): 456.543	North (km): 3135.476	
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 28/20/48		Longitude (DD/MM/SS): 81/26/36	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4922

7. Facility Comment (limit to 500 characters):

Compressor Station No. 31 will be a natural gas pipeline compressor station with one compressor engine. It will be classified as a minor source under New Source Review and Title V definitions.

Facility Contact

1. Name and Title of Application Contact:
   Jim Thompson,
   Environmental Project Manager for Florida Gas Transmission Co. – Phase V Expansion Project

2. Application Contact Mailing Address:
   Organization/Firm: Florida Gas Transmission Company
   Street Address: 111 Kelsey Lane, Ste. A
   City: Tampa State: FL Zip Code: 33619

3. Application Contact Telephone Numbers:
   Telephone: (800) 381-1477 Fax: (813) 655-3951

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source?	[ ] Unknown
2. [ ] Synthetic Non-Title V Source?	
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?	
4. [ ] Synthetic Minor Source of HAPs?	
5. [ ] One or More Emissions Units Subject to NSPS?	
6. [ ] One or More Emission Units Subject to NESHAP Recordkeeping or Reporting?	
7. Facility Regulatory Classifications Comment (limit to 200 characters):	
Facility is a minor source for PSD and Title V purposes. The project is not subject to PSD since the emissions are less than the levels for a major source.	

Rule Applicability Analysis

FDEP Title V Core List

62-296.320(4)(b)1 General Visibile Emissions Standards

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
NO_X	B				
CO	B				
VOC	B				
SO_2	B				
PM	B				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID:*Narrative Fig 1-1* [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID:_*Att. B* [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [ ] Attached, Document ID:_____ [X] Not Applicable [X] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Supplemental Information for Construction Permit Application: [X] Attached, Document ID: *Attach. C* [ ] Not Applicable
6. Supplemental Requirements Comment:

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

2,225 bhp natural gas fired reciprocating compressor engine

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/17/02	49

7. Emissions Unit Comment: (Limit to 500 Characters)

The proposed compressor engine will be a Caterpillar model G3608 reciprocating engine compressor unit rated at 2,225 bhp. Fuel will be exclusively natural gas from the FGT's gas pipeline.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Caterpillar Model Number: G3608
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: 15.2 mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

Heat input is 15.2 MM Btu/hr based on vendor specifications of 6,810 Btu/hp-hr and 2,225 bhp.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? 3101 New Engine	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 44.5 feet	7. Exit Diameter: 1.625 feet
8. Exit Temperature: 842 °F	9. Actual Volumetric Flow Rate: 14,816 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 456.54 North (km): 3135.48		
14. Emission Point Comment (limit to 200 characters):		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Natural gas fired reciprocating engine driving a natural gas compressor, operating full time.		
2. Source Classification Code (SCC): 2-02-002-54	3. SCC Units: million cubic feet burned	
4. Maximum Hourly Rate: 0.01457	5. Maximum Annual Rate: 127.63	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.03	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: 1040
10. Segment Comment (limit to 200 characters): Based on vendor supplied fuel rate of 15.2 MMBtu/hr. Percent sulfur is base on maximum Federal Energy Regulatory Commission (FERC) limit of 10 gr S/100 scf and gas density of 0.0455 lb/scf.		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX	2. Pollutant Regulatory Code: EL	
3. Primary Control Device Code:	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 3.43 lb/hour 15.0 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 0.7 g/bhp-hr Reference: Vendor's data		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (0.7 g/bhp-hr)(2225 bhp)(1 lb/453.59 g) = 3.43 lb/hr (3.43 lb/hr)(8760 hr/yr)(1 ton/2000lb) = 15.04		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA___ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Initial performance test.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 12.75 lb/hour 55.9 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 2.6 g/bhp-hr Reference: Vendor's data		9. Emissions Method Code: 5
10. Calculation of Emissions (limit to 600 characters): (2.6 g/bhp-hr)(2225 bhp)(1 lb/453.59 g) = 12.75 lb/hr (12.75 lb/hr)(8760 hr/yr)(1 ton/2000lb) = 55.86		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 4.41 lb/hour 19.3 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 0.9 g/bhp-hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(0.9 g/bhp-hr)(2225 bhp)(1 lb/453.59 g) =4.41 lb/hr
(4.41 lb/hr)(8760 hr/yr)(1 ton/2000lb) = 19.34

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: SO2		2. Pollutant Regulatory Code: EL
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.42 lb/hour 1.8 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 10 gr/100scf Reference: Vendor's fuel use data		9. Emissions Method Code: 2

10. Calculation of Emissions (limit to 600 characters):

(10 gr S/100 scf)(0.01457 MMscf/hr)(1 lb/7000 gr) = 0.208 lb S/hr
(0.208 lb S/hr)(2 lb SO2/lb S) = 0.42 lb SO2/hr
(0.42 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb) = 1.82 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

SO2 emission factor is based on maximum Federal Energy Regulatory Commission (FERC) limit of 10 gr S/100 scf and gas density of 0.0455 lb/scf.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: NA	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: PM		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.15 lb/hour 0.7 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 0.00999 lb/MMBtu Reference: AP-42 Table 3.2-2, 4/00		9. Emissions Method Code: 4

10. Calculation of Emissions (limit to 600 characters):

(0.00999 lb/MMBtu)(15.15 MMBtu/hr) = 0.151 lb/hr
(0.151 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.66 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's fuel use data.

Allowable Emissions Allowable Emissions __NA__ of ____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: HAPs		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.1721 g/hp-hr 0.843 lb/hour 3.69 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: 0.17211 g/bhp-hr Reference: GRI-HAPCalc 3.1		9. Emissions Method Code: 4

10. Calculation of Emissions (limit to 600 characters):

(0.1721g/hp-hr)(2,225 hp)(1 lb/453.6 g) = 0.843 lb/hr
(0.843/lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 3.69 ton/yr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Detailed calculations provided in Attachment D.
HAP emissions are also included in VOC emissions.

Allowable Emissions Allowable Emissions __NA__ of __ __

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation ___1__ of ___1__

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 20% Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: 40 CFR 60 Appendix A Method 9	
5. Visible Emissions Comment (limit to 200 characters): Subject to 62-296-320(4)(b)1 General Visible Emissions Standards.	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: *Narrative*_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Emergency generator Cummins-Onan emergency generator Model GTA-12 rated at 120 kW

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/14/02	49

7. Emissions Unit Comment: (Limit to 500 Characters)

The proposed generator engine will be a Cummins-Onan Model GTA-12 reciprocating engine rated at 120 kW (184 bhp) and fueled by natural gas.

The unit will be operated no more than 500 hours per year.

This unit was originally installed at Compressor Station No. 26 6in Lecanto, Florida, in 1994 under permit No. AC 09-229441

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Cummins-Onan Model Number: GTA-12
2. Generator Nameplate Rating: 0.120 MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: Unknown mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:
   hours/day days/week
   weeks/year 500 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):

   Schedule will be limited to 500 hours per year.

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? GEN01	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: V	6. Stack Height: 33 feet	7. Exit Diameter: 0.33 feet
8. Exit Temperature: 1150 °F	9. Actual Volumetric Flow Rate: 1,250 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 456.54 North (km): 3135.48		
14. Emission Point Comment (limit to 200 characters): This 184 bhp emergency generator will not be operated more than 500 hours per year.		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Natural gas fired reciprocating engine driving a 120 Kw generator, operating no more than 500 hours per year.		
2. Source Classification Code (SCC): 2-02-002-54	3. SCC Units: MM scf burned	
4. Maximum Hourly Rate: Unknown	5. Maximum Annual Rate: Unknown	6. Estimated Annual Activity Factor: NA
7. Maximum % Sulfur: 0.03	8. Maximum % Ash: NA	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): .		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: NOX	2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 1.78 lb/hour 7.80 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 1.78 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(1.78 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 7.80 tpy

(1.78 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.45 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's data.

Allowable Emissions Allowable Emissions __1___ of __1___

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units: NA	4. Equivalent Allowable Emissions: 1.78 lb/hour 0.45 tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Operation to be limited to 500 hrs/yr.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: CO		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.61 lb/hour 2.7 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.61 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(0.61 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 2.67 tpy

(0.61 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.15 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Based on vendor's data.

Allowable Emissions Allowable Emissions __1__ of __1__

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 0.61 lb/hour 0.15

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Operation to be limited to 500 hrs/yr.

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.024 lb/hour 0.11 tons/year		7. Synthetically Limited? [X]
8. Emission Factor: 0.024 lb/hr Reference: Vendor's data		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(0.024 lb/hr)(8760 hr/yr)(1 ton/2000 lb) = 0.105 tpy

(0.024 lb/hr)(500 hr/yr)(1 ton/2000 lb) = 0.006 tpy

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Allowable Emissions Allowable Emissions __1__ of __1__

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: 0.024 lb/hour 0.01 tons/year

5. Method of Compliance (limit to 60 characters):

Maintain record of hours of operation.

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

Operation to be limited to 500 hrs/yr.

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation __NA__ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: *Narrative*_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

Fugitive emissions from component leaks

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/14/02	49

7. Emissions Unit Comment: (Limit to 500 Characters)

These are new fugitive leak emissions from new components (valves, flanges, etc.).

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate:
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? FUGITIVE	2. Emission Point Type Code: 4	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 0 feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 456.54 North (km): 3135.48		
14. Emission Point Comment (limit to 200 characters):		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
Fugitive emissions from component leaks.		
2. Source Classification Code (SCC): 3-10-888-11	3. SCC Units: MM cubic feet produced	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: component count
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): Based on count of new components and USEPA emission factors provided in EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC	2. Pollutant Regulatory Code: NS	
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.1530 lb/hour 0.67 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: lb/hr/component Reference: EPA-453/R-95-017, Protocol for Equipment Leak EmissionEstimates"		9. Emissions Method Code: 5

10. Calculation of Emissions (limit to 600 characters):

(EPA factor for specific component type) (number of components of specific type) = tpy.
Assume non-methane/non-ethane fraction is 5%.
(tons/year)(2000 lb/ton)(1 yr/8760 hr) = lb/hr

11. Pollutant Potential Emissions Comment (limit to 200 characters):

Factors vary by component type. See Attachment D for specific factors and calculations.

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year

5. Method of Compliance (limit to 60 characters):

6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation __NA__ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: *Narrative*_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

4,200-gallon vertical fixed roof pipeline condensate storage tank.

3. Emissions Unit Identification Number: [X] No ID
ID: [ ] ID Unknown

4. Emissions Unit Status Code:	5. Initial Startup Date:	6. Emissions Unit Major Group SIC Code:
C	01/14/02	49

7. Emissions Unit Comment: (Limit to 500 Characters)

Tank is vertical and measures approximately 8 feet high by 9.5-foot diameter.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: 3000 gallons per year
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Condensate	2. Emission Point Type Code: 1

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA

4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:

NA

5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %

11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 8 feet

13. Emission Point UTM Coordinates:

Zone: 17 East (km): 456.54 North (km): 3135.48

14. Emission Point Comment (limit to 200 characters):

4200 gallon vertical tank

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC): 4-07-146-97 and 4-07-146-98	3. SCC Units: 3000 gallons throughput	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor: 0.7
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _NA__ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): NA		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: 0.003 lb/hour 0.015 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: Reference: USEPA AP-42 Tanks3.1 Program		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): Calculated using USEPA Tanks program, version 3.1. See Attachment D for output.		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation __NA__ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: *Narrative*_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through G as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[ ] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.

[X] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

2. Description of Emissions Unit Addressed in This Section (limit to 60 characters):

4,200-gallon vertical oily water storage tank.

3. Emissions Unit Identification Number: ID:		[X] No ID [ ] ID Unknown
4. Emissions Unit Status Code: C	5. Initial Startup Date: 01/14/02	6. Emissions Unit Major Group SIC Code: 49

7. Emissions Unit Comment: (Limit to 500 Characters)

Tank is vertical and measures approximately 8 feet high by 9.5-foot diameter.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (limit to 200 characters per device or method):

   NA

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:
   Manufacturer: Model Number:
2. Generator Nameplate Rating: MW
3. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lb/hr tons/day
3. Maximum Process or Throughput Rate: 3000 gallons per year
4. Maximum Production Rate:
5. Requested Maximum Operating Schedule:

24	hours/day	7	days/week
52	weeks/year	8760	hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters):

B. EMISSION POINT (STACK/VENT) INFORMATION

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Oily Water	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): NA		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA		
5. Discharge Type Code: F	6. Stack Height: NA feet	7. Exit Diameter: NA feet
8. Exit Temperature: 77 °F	9. Actual Volumetric Flow Rate: NA acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: NA dscfm	12. Nonstack Emission Point Height: 8 feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 456.54 North (km): 3135.48		
14. Emission Point Comment (limit to 200 characters): 4200 gallon vertical tank		

C. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment __1__ of ___2___

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC): 4-07-146-97 and 4-07-146-98	3. SCC Units: 1000 gallons throughput	
4. Maximum Hourly Rate: *0*	5. Maximum Annual Rate: *0*	6. Estimated Annual Activity Factor: 2.5
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters): None		

Segment Description and Rate: Segment _2__ of __2___

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Breathing loss.		
2. Source Classification Code (SCC): 4-07-016-14	3. SCC Units: 1000 gallon capacity	
4. Maximum Hourly Rate: 0	5. Maximum Annual Rate: 0	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: NA	8. Maximum % Ash: NA	9. Million Btu per SCC Unit: NA
10. Segment Comment (limit to 200 characters):		

D. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION

Potential Emissions

1. Pollutant Emitted: VOC		2. Pollutant Regulatory Code: NS
3. Primary Control Device Code: NA	4. Secondary Control Device Code: NA	5. Total Percent Efficiency of Control:
6. Potential Emissions: <0.01 lb/hour <0.01 tons/year		7. Synthetically Limited? [ ]
8. Emission Factor: Reference: USEPA AP-42 Tanks3.1 Program		9. Emissions Method Code: 3
10. Calculation of Emissions (limit to 600 characters): Calculated using USEPA Tanks program, version 3.1. See Attachment D for output.		
11. Pollutant Potential Emissions Comment (limit to 200 characters):		

Allowable Emissions Allowable Emissions __NA__ of _____

1. Basis for Allowable Emissions Code: NA	2. Future Effective Date of Allowable Emissions: NA
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: NA lb/hour NA tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): None	

E. VISIBLE EMISSIONS INFORMATION
(Only Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation __NA__ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

F. CONTINUOUS MONITOR INFORMATION
(Only Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor __NA__ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

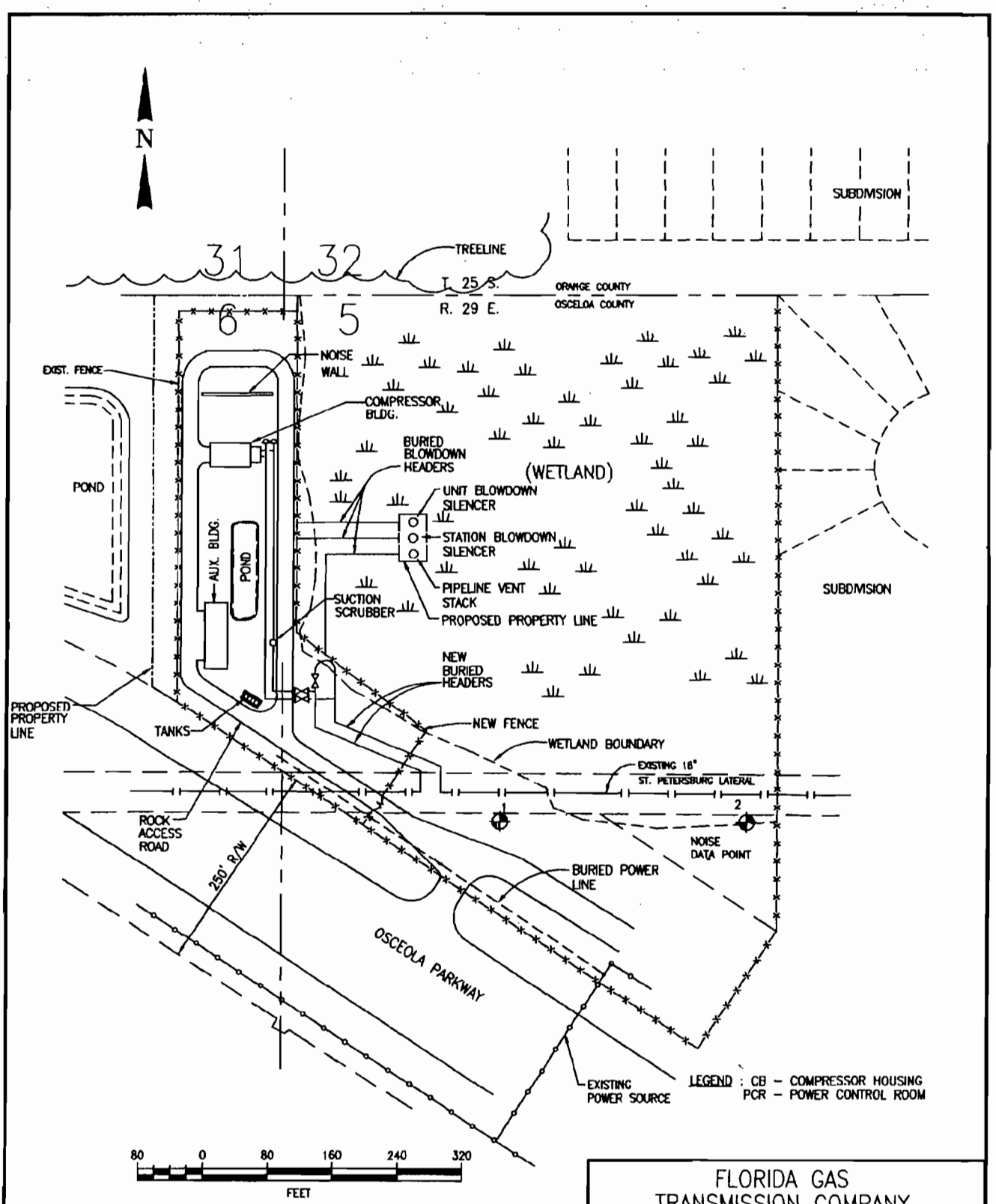
G. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [ ] Not Applicable [X] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [X] Attached, Document ID: *Narrative*_____ [ ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Supplemental information is provided in the narrative description accompanying these forms.

Attachment B

Plot Plan



NOISE DATA:

Avg. 1 Hour
LEQ taken 2 p.m. 10/21
Temp. 68-85°F
Wind: 3-5 MPH SW

FLORIDA GAS TRANSMISSION COMPANY

PROPOSED FGT PHASE V
NEW COMPRESSOR STATION NO. 31
PLOT PLAN

DWG. NO. NV-10 10/24/00

W10.DWG - 07/28/2000 - 10:20

Attachment C

Vendor Information

Caterpillar Model 3608 Reciprocating Turbine

G3608 GAS ENGINE TECHNICAL DATA CATERPILLAR

Custom 01/2000

ENGINE SPEED (rpm):	1000	FUEL TYPE:	Nat Gas
COMPRESSION RATIO:	9:1	MIN. FUEL PRESSURE (psig):	45
AFTERCOOLER WATER (°F)	129	MIN. RATED METHANE NUMBER:	60
JACKET WATER OUT (°F)	190	RATED ALTITUDE @ 77°F (ft):	4921
IGNITION SYSTEM:	CIS	FUEL LHV (Btu/sft3):	905
EXHAUST MANIFOLD:	Dry		

RATING			100%	75%	50%
ENGINE POWER	(1)	bhp	2225	1669	1113

ENGINE DATA					
FUEL CONSUMPTION		Btu/bhp-hr	6810	7035	7550
AIR FLOW (@ 77°F, 13.8 psia)		ft3/min	8,137	4,716	3,144
AIR MASS FLOW		lb/hr	23,785	19,796	13,197
COMPRESSOR OUTLET PRESSURE		psi (abs)	34.5	26.7	19.0
COMPRESSOR OUTLET TEMPERATURE		°F	289	237	154
INLET MANIFOLD PRESSURE		psi (abs)	34.2	26.4	18.7
INLET MANIFOLD TEMPERATURE		°F	141	137	133
LAMBDA			2.08	2.06	1.92
TIMING		°BTDC	20.2	20.2	19.0
EXHAUST STACK TEMPERATURE		°F	842	861	912
EXHAUST GAS FLOW (@ stack temp. 14.5 psia)		ft3/min	14,816	11,565	8,017
EXHAUST GAS MASS FLOW		lb/hr	26,548	20,402	13,530

EMISSIONS					
NOx (as NO2)	(2)	g/bhp-hr	0.70	0.70	0.70
CARBON MONOXIDE	(2)	g/bhp-hr	2.50	2.50	2.50
TOTAL HYDROCARBONS	(2)	g/bhp-hr	6.00	6.30	6.50
NON-METHANE HYDROCARBONS	(2)	g/bhp-hr	0.90	0.95	0.98
EXHAUST OXYGEN		%	12.3	11.7	10.7

HEAT BALANCE DATA					
FUEL INPUT ENERGY (LHV)	(3)	Btu/min	252,538	195,681	139,990
HEAT REJ. TO EXH. (LHV to 77°F)	(4)	Btu/min	96,541	76,445	55,305
HEAT REJ. TO EXH. (350°F)	(4)	Btu/min	57,622	46,087	34,076
HEAT REJ. TO AFTERCOOLER	(5)	Btu/min	16,596	8,974	1,689
HEAT REJ. TO ATMOSPHERE	(5)	Btu/min	8,839	8,218	7,689
HEAT REJ. TO LUBE OIL	(7)	Btu/min	11,715	10,682	10,578
HEAT REJ. TO JACKET WATER	(4)	Btu/min	24,162	20,374	17,526

TYPICAL ENGINE EXHAUST 4" = 18"

NOTES

1) Continuous output and reference conditions according to ISO 3046/1 (77°F, 14.5 psia). No overload permitted at the rating shown.
2) Tolerances are included. Consult the factory for emissions for permitting purposes.
3) Tolerance +2.5, -3.0%
4) Tolerance +10, -20%, jacket water heat rejection based on treated water as coolant
5) Tolerance +5, -25%, heat rejection based on treated water as coolant
6) Tolerance +40, -25% engine only

Preliminary Deep Core A/C

Attachment D

Emission Calculations

Engine Emissions

Engine HAP Emissions

Fugitive Leak Emissions

Tank Emissions

Engine Emissions

Engine No. 3101

NOx Emissions: (Based on Vendor Data)

lb NOx/hr =(g/bhp-hr)(bhp)(1 lb/453.59 g)
=(0.7 g/bhp-hr)(2225 bhp)(1 lb/453.59 g)
=3.43

tons NOx/yr =(lb NOx/hr)(hr/yr)(1 ton/2000 lb)
=(3.43 lb NOx/hr)(8760 hr/yr)(1 ton/2000 lb)
=15.04

CO Emissions: (Based on Vendor Data)

lb CO/hr =(g/bhp-hr)(bhp)(1 lb/453.59 g)
=(2.6 g/bhp-hr)(2225 bhp)(1 lb/453.59 g)
=12.75

tons CO/yr =(lb CO/hr)(hr/yr)(1 ton/2000 lb)
=(12.75 lb CO/hr)(8760 hr/yr)(1 ton/2000 lb)
=55.86

VOC Emissions: (Based on Vendor Data)

lb VOC/hr =(g/bhp-hr)(bhp)(1 lb/453.59 g)
=(0.9 g/bhp-hr)(2225 bhp)(1 lb/453.59 g)
=4.41

tons VOC/yr =(lb VOC/hr)(hr/yr)(1 ton/2000 lb)
=(4.41 lb VOC/hr)(8760 hr/yr)(1 ton/2000 lb)
=19.34

SO2 Emissions: (Based on FERC Limits)

lb S/hr =(gr S/100 scf)(MMscf/hr)(1 lb/7000 gr)
=(10 gr S/100 scf)(0.0146 MMscf/hr)(1 lb/7000 gr)
=0.21

lb SO2/hr =(lb S/hr)(2 lb SO2/lb S)
=(0.21 lb S/hr)(2 lb SO2/lb S)
=0.42

tons SO2/yr =(lb SO2/hr)(hr/yr)(1 ton/2000 lb)
=(0.42 lb SO2/hr)(8760 hr/yr)(1 ton/2000 lb)
=1.82

PM Emissions: (Based on AP-42 Table 3.2-2, 4/00)

lb PM/hr =(lb PM/MMBtu)(MMBtu/hr)
=(0.00999 MMBtu/hr)(0.0146 MMBtu/hr)
=0.15

tons PM/yr =(lb PM/hr)(hr/yr)(1 ton/2000 lb)
=(0.15 lb PM/hr)(8760 hr/yr)(1 ton/2000 lb)
=0.66

Engine No. GEN01

NOx Emissions: (Based on Vendor Data)

lb NOx/hr = 1.78

tons NOx/yr = (lb NOx/hr)(hr/yr)(1 ton/2000 lb)
= (1.78 lb NOx/hr)(8760 hr/yr)(1 ton/2000 lb)
= 7.80

For 500 Hours
= (1.78 lb NOx/hr)(500 hr/yr)(1 ton/2000 lb)
= 0.45

CO Emissions: (Based on Vendor Data)

lb CO/hr = (g/bhp-hr)(bhp)(1 lb/453.59 g)
0.61

tons CO = (lb CO/hr)(hr/yr)(1 ton/2000 lb)
= (0.61 lb CO/hr)(8760 hr/yr)(1 ton/2000 lb)
= 2.67

For 500 Hours
= (0.61 lb CO/hr)(500 hr/yr)(1 ton/2000 lb)
= 0.15

VOC Emissions: (Based on Vendor Data)

lb VOC/hr = 0.024

tons VOC/yr = (lb VOC/hr)(hr/yr)(1 ton/2000 lb)
= (0.024 lb VOC/hr)(8760 hr/yr)(1 ton/2000 lb)
= 0.105

For 500 Hours
= (0.024 lb VOC/hr)(500 hr/yr)(1 ton/2000 lb)
= 0.01

Engine HAP Emissions

GRI-HAPCalc Version 3.1 is a personal computer-based database program that estimates emissions of hazardous air pollutants (HAPs) and criteria pollutants from natural gas industry operations. HAPCalc 3.1 estimates emissions from the following point sources: amine sweetening units, sulfur recovery units, reciprocating engines, combustion turbines, small external combustion devices, flares, liquid hydrocarbon storage tanks, truck loading, miscellaneous process vents, and fugitives.

Emissions are estimated with factors derived from data collected during various GRI Environment and Safety research programs or by the U.S. Environmental Protection Agency (EPA). The GRI Literature database, developed during Phase I of the Air Toxics Program (1990 to 1992), compiled available emission test results from 40 reciprocating engines, 2 gas turbines, and 1 steam generator. The GRI Field Test database, developed from 1994 to 1997, contains GRI test data from 26 engines, 9 gas turbines, and 8 external combustion devices operating at several natural gas transmission, storage, and processing facilities. EPA emission factors are obtained from AP-42, 5th Edition [U.S. Environmental Protection Agency].

Since data are not available for all pollutants for some of the emission factor sets, a hierarchical combination of EPA > GRI Field > GRI Literature was used. Emission factors are prioritized in the listed order.

Engine 3101 HAP Emission Factors and Emissions

Chemical	EF g/bhp-hr	tpy	lbs/hour	Factor Set
Formaldehyde	0.127006	2.72629289	0.6224413	EPA
Methanol	0.0044452	0.09542004	0.0217854	EPA
Acetaldehyde	0.0163293	0.35052245	0.08002796	EPA
Acrolein	0.0074	0.15884736	0.03626652	GRI Literature
Benzene	0.0034927	0.07497381	0.01711731	EPA
Toluene	0.0036287	0.07789316	0.01778383	EPA
Ethylbenzene	0.0003221	0.00691415	0.00157857	EPA
Xylenes(m,p,o)	0.0012701	0.02726379	0.00622461	EPA
2,2,4-Trimethylpentane	0.0013154	0.02823619	0.00644662	EPA
n-Hexane	0.0032205	0.0691308	0.01578329	EPA
Phenol	0.0000907	0.00194695	0.00044451	EPA
Styrene	0.0001724	0.00370071	0.00084491	EPA
Naphthalene	0.0000381	0.00081785	0.00018672	EPA
Biphenyl	0.0007711	0.01655232	0.00377907	EPA
Fluorene	0.0000367	0.0007878	0.00017986	EPA
Ethylene Dibromide	0.0003629	0.00778996	0.00177853	EPA
Vinyl Chloride	0.0001225	0.00262957	0.00060036	EPA
Methylene Chloride	0.000313	0.00671881	0.00153397	EPA
1,1-Dichloroethane	0.0001905	0.00408925	0.00093362	EPA
1,3-Dichloropropene	0.0002177	0.00467312	0.00106692	EPA
Chlorobenzene	0.0002177	0.00467312	0.00106692	EPA
Chloroform	0.0002313	0.00496505	0.00113357	EPA
1,1,2-Trichloroethane	0.0002087	0.00447992	0.00102281	EPA
1,1,2,2-Tetrachloroethane	0.0004082	0.00876236	0.00200054	EPA
Carbon Tetrachloride	0.0002994	0.00642688	0.00146732	EPA
TOTALS:	**0.1721109**	**3.69**	**0.843**	

Fugitive Leak Emissions

Component	Service	Component Count	Emissions * Factor (ton/yr)	NM/NE Fraction	Emissions (ton/yr)
Valves	Gas	119	0.0434606	0.05	0.26
Connector	Gas	0	0.0019316	0.05	0.00
Flanges	Gas	122	0.0037666	0.05	0.02
Open-Ended Line	Gas	47	0.0193158	0.05	0.05
Pumps	Gas	0	0.023179	0.05	0.00
Other	Gas	0	0.0849895	0.05	0.00
Valves	Light Oil	10	0.0241448	1.00	0.24
Connector	Light Oil	0	0.0020282	1.00	0.00
Flanges	Light Oil	24	0.0010624	1.00	0.03
Open-Ended Line	Light Oil	4	0.0135211	1.00	0.05
Pumps	Light Oil	0	0.1255527	1.00	0.00
Other	Light Oil	0	0.0724343	1.00	0.00
Valves	Heavy Oil	26	0.0000811	1.00	0.00
Connector	Heavy Oil	0	0.0000724	1.00	0.00
Flanges	Heavy Oil	32	0.0000038	1.00	0.00
Open-Ended Line	Heavy Oil	3	0.0013521	1.00	0.00
Other	Heavy Oil	5	0.0002994	1.00	0.00
				TOTAL:	**0.66**

*'EPA publication EPA-453/R-95-017, November 1995, "Protocol for Equipment Leak Emission Estimates"

Tank Emission Calculations

TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification
Identification No.:	31/Cond01
City:	Kissimee
State:	FL
Company:	FGT
Type of Tank:	Vertical Fixed Roof
Description:	Condensate Tank

Tank Dimensions
Shell Height (ft):	8.0
Diameter (ft):	9.5
Liquid Height (ft):	8.0
Avg. Liquid Height (ft):	4.5
Volume (gallons):	4242
Turnovers:	0.7
Net Throughput (gal/yr):	3000

Paint Characteristics
Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics
Type:	Cone
Height (ft):	0.00
Radius (ft) (Dome Roof):	0.00
Slope (ft/ft) (Cone Roof):	0.0625

Breather Vent Settings
Vacuum Setting (psig):	-0.03
Pressure Setting (psig):	0.03

Meteorological Data Used in Emission Calculations: Orlando, Florida (Avg Atmospheric Pressure = 14.7 psia)

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Pipeline Condensate	All	74.41	68.90	79.92	72.42	0.7152	0.6256	0.8154	53.075			53.00	Option 4: RVP=1.40
Benzene						1.7190	1.4871	1.9798		0.0008	0.0019	78.11	Option 2: A=6.9050,
B=1211.033, C=220.790													
Ethylbenzene						0.1762	0.1470	0.2103		0.0006	0.0001	106.17	Option 2: A=6.9750,
B=1424.255, C=213.210													
Pipeline Condensate						0.7156	0.6259	0.8158		0.9950	0.9963	53.00	Option 4: RVP=1.40
Toluene						0.5095	0.4331	0.5971		0.0016	0.0011	92.13	Option 2: A=6.9540,
B=1344.800, C=219.480													
Xylene (-m)						0.2087	0.1745	0.2485		0.0010	0.0003	106.17	Option 2: A=7.0090,
B=1426.266, C=215.110													
Xylene (-o)						0.1171	0.0971	0.1406		0.0010	0.0002	106.17	Option 2: A=6.9980,
B=1474.679, C=213.690													

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Working	Total
Pipeline Condensate	27.44	2.03	29.48
Benzene	0.05	0.00	0.06
Ethylbenzene	0.00	0.00	0.00
Pipeline Condensate	27.34	2.03	29.37
Toluene	0.03	0.00	0.03
Xylene (-m)	0.01	0.00	0.01
Xylene (-o)	0.00	0.00	0.00
Total:	27.44	2.03	29.48

TANK IDENTIFICATION AND PHYSICAL CHARACTERISTICS

Identification

Identification No.:	31/oily01
City:	Kissimee
State:	FL
Company:	FGT
Type of Tank:	Vertical Fixed Roof
Description:	Oily Water Tank

Tank Dimensions

Shell Height (ft):	8.0
Diameter (ft):	9.5
Liquid Height (ft):	8.0
Avg. Liquid Height (ft):	4.5
Volume (gallons):	4242
Turnovers:	0.7
Net Throughput (gal/yr):	3000

Paint Characteristics

Shell Color/Shade:	White/White
Shell Condition:	Good
Roof Color/Shade:	White/White
Roof Condition:	Good

Roof Characteristics

Type:	Cone
Height (ft):	0.00
Radius (ft) (Dome Roof):	0.00
Slope (ft/ft) (Cone Roof):	0.0625

Breather Vent Settings

Vacuum Setting (psig):	-0.03
Pressure Setting (psig):	0.03

Meteorological Data Used in Emission Calculations: Orlando, Florida (Avg Atmospheric Pressure = 14.7 psia)

TANKS PROGRAM 3.1 05/03/01
EMISSIONS REPORT - SUMMARY FORMAT PAGE 2
LIQUID CONTENTS OF STORAGE TANK

Mixture/Component	Month	Daily Liquid Surf. Temperatures (deg F) Avg.	Min.	Max.	Liquid Bulk Temp. (deg F)	Vapor Pressures (psia) Avg.	Min.	Max.	Vapor Mol. Weight	Liquid Mass Fract.	Vapor Mass Fract.	Mol. Weight	Basis for Vapor Pressure Calculations
Lube Oil	All	74.41	68.90	79.92	72.42	0.0033	0.0026	0.0040	190.000			190.00	Option 1

TANKS PROGRAM 3.1 05/03/01
EMISSIONS REPORT - SUMMARY FORMAT PAGE 3
INDIVIDUAL TANK EMISSION TOTALS

Annual Emissions Report

Liquid Contents	Losses (lbs.): Standing	Working	Total
Lube Oil	0.38	0.04	0.42
Total:	0.38	0.04	0.42

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Danny Pribble
Vice President of Operations
Florida Gas Transmission Company
P.O. Box 1188
Houston, TX 77251

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* — B. Date of Delivery: JUL - 5 2001

C. Signature: X J. Matt ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7099 3400 0000 1453 1729

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

Article Sent To: Mr. Danny Pribble

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

Postmark Here

Name (Please Print Clearly) (to be completed by mailer)
Mr. Danny Pribble
Street, Apt. No.; or PO Box No.
P.O. Box 1188
City, State, ZIP+4
Houston, TX 77251

PS Form 3800, July 1999 See Reverse for Instructions

7099 3400 0000 1453 1729

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Danny Pribble
Vice President of Operations
Florida Gas Transmission Company
P.O. Box 1188
Houston, TX 77251

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery

JUL 2 8 2001

C. Signature

☐ Agent
☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7000 0600 0026 4129 9259

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7000 0600 0026 4129 9259

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

Postmark Here

Recipi Mr. Danny Pribble
Vice President of Operations
Street, Florida Gas Transmission Company
P.O. Box 1188
City, S Houston, TX 77251

PS For Instructions

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Jim Thompson
Environmental Project Manager
Florida Gas Transmission Company
111 Kelsey Lane, Suite A
Tampa, FL 33619

COMPLETE THIS SECTION ON DELIVERY

A. Received by *(Please Print Clearly)* | B. Date of Delivery 4 Jan 05

C. Signature
X [signature] ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Copy from service label)*
7000 0600 0026 4129 8771

PS Form 3811, July 1999 Domestic Return Receipt 102595-99-M-1789

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7000 0600 0026 4129 8771

Postage	$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here

Total P
Recipie Mr. Jim Thompson
Street, A Environmental Project Manager
Florida Gas Transmission Company
111 Kelsey Lane, Suite A
City, Sta Tampa, FL 33619

PS Form [illegible], February 2002 [illegible]nstructions