



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

December 22, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Clayton Roesler
Division Environmental Specialist
Florida Gas Transmission
P.O. Box 945100
Maitland, Florida 32794

Re: DEP No. AC 29-228821A **0570438-002-AC**
Station No. 30 Hillsborough County

Dear Mr. Roesler:

Enclosed is one copy of the Draft Re-issued Air Construction Permit for Turbine 3003 at Station No. 30 at the Florida Gas Transmission (FGT) facility located 2 miles east of State Highway 39 on Griffin Road in Hillsborough County, Florida. The Department's Intent to Issue Air Construction Permit and the "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" are also included.

The enclosed "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT" must be published within 30 (thirty) days of receipt of this letter. Proof of publication, i.e., newspaper affidavit, must be provided to the Department's Bureau of Air Regulation office within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time 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 Teresa Heron or Mr. Linero at 850/488-1344.

Sincerely,

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

CHF/aal

Enclosures

NOTICE OF INTENT TO ISSUE
IN THE PUBLIC INTEREST

PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DEP Permit No. AC 29-228821(A)

Combustion Turbine 3003
Florida Gas Transmission Company - Compressor Station 30
Hillsborough County

The Department of Environmental Protection (Department) gives notice of its intent to re-issue an air construction permit to Florida Gas Transmission Company to construct a 1202 brake horsepower combustion turbine at Compressor Station 30. The station is located 2 miles east of State Highway 39 on Griffin Road near Plant City, Hillsborough County. A Best Available Control Technology (BACT) determination was not required pursuant to Rules 62-212.400 and 410, F.A.C., Prevention of Significant Deterioration (PSD). The applicant's name and address are: Florida Gas Transmission Company, Post Office Box 945100 Maitland, Florida 32794.

The original Notice for the project was published on August 6, 1993 in The Tampa Tribune and a permit was issued on September 23, 1993. It contained an erroneous requirement of 42 parts per million (ppm) nitrogen oxides concentration in the exhaust gas when the applicable standard is 150 ppm. In the interim, the unit was constructed and the construction permit expired. Therefore this public notice and a re-issued construction permit are required. Allowable nitrogen oxides emission rates of 3.95 pounds per hour and 17.3 tons per year in the original permit remain unchanged as a result of this action.

The Department will issue the FINAL Permit, in accordance with the conditions of the DRAFT Permit 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 and requests for public meetings concerning the proposed DRAFT Permit issuance action for a period of 14 (fourteen) days from the date of publication of this Notice. Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit, the Department shall issue a Revised DRAFT Permit and require, if applicable, another Public Notice.

The Department will issue FINAL Permit with the conditions of the DRAFT Permit unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57 F.S. The procedures for petitioning for a hearing are set forth below. Mediation is not available for this action.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with 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, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9370, fax: 850/487-4938. Petitions must be filed

Is your RETURN ADDRESS completed on the reverse side?

SENDER:
 ■ Complete items 1 and/or 2 for additional services.
 ■ Complete items 3, 4a, and 4b.
 ■ Print your name and address on the reverse of this form so that we can return this card to you.
 ■ Attach this form to the front of the mailpiece, or on the back if space does not permit.
 ■ Write "Return Receipt Requested" on the mailpiece below the article number.
 ■ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. Addressee's Address
 2. Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:
 Clayton Roesler, ES
 Fla. Gas Transmission
 P.O. Box 945100
 Maitland, FL

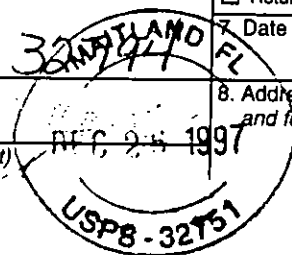
4a. Article Number
 P 265 659 272
 4b. Service Type
 Registered Certified
 Express Mail Insured
 Return Receipt for Merchandise COD

5. Received By: (Print Name)

7. Date of Delivery

6. Signature: (Addressee or Agent)
 X

8. Addressee's Address (Only if requested and fee is paid)



PS Form

Return Receipt

Thank you for using Return Receipt Service.

P 265 659 272

US Postal Service
Receipt for Certified Mail
 No Insurance Coverage Provided.
 Do not use for International Mail (See reverse)

Sent to	Clayton Roesler
Special Number	FGT
Post Office, State, & ZIP Code	Maitland FL
Postage	\$
Certified Fee	
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, & Addressee's Address	
TOTAL Postage & Fees	\$
Postmark or Date	12-22-97

PS Form 3800, April 1995

Sl. # 30

within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the Department's action or proposed action addressed in this notice of intent.

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 of intent. 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:

Hillsborough County Environmental Protection Commission 1900 Ninth Avenue Tampa, Florida 33605 Telephone 813/272-5960 Fax: 813/272-5157	Department of Environmental Protection Bureau of Air Regulation 111 S. Magnolia Drive, Suite 4 Tallahassee, Florida 32301 Telephone: 850/488-1344 Fax: 850/922-6979	Department of Environmental Protection Southwest District 3804 Coconut Palm Drive Tampa, Florida 33619-8218 Telephone: 813/744-6100 Fax: 813/744-6084
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The complete project file includes the application, Draft Permit, previous technical evaluation and permit, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 850/488-1344, for additional information.

In the Matter of an
Application for Permit by:

Florida Gas Transmission Company
P.O. Box 945100
Maitland, Florida 32794-5100

DEP File No. AC29-228821A
Compressor Station No. 30
Hillsborough County

INTENT TO ISSUE AIR CONSTRUCTION PERMIT

The Department of Environmental Protection (Department) gives notice of its intent to re-issue an air construction permit (copy of DRAFT Permit attached) for the proposed project, detailed in the request specified above and the original Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Florida Gas Transmission Company, submitted a letter on December 9, 1997 to the Department for a corrective amendment of the original construction permit for a combustion turbine (Unit 3003) at its Compressor Station No. 30 located 2 miles east of State Highway 39 on Griffin Road, Plant City, Hillsborough County.

The Department has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-212. The above actions are not exempt from permitting procedures. The Department has determined that a corrected and re-issued air construction permit is required.

The Department intends to issue this air construction permit based on the belief that reasonable assurances have been provided to indicate that operation of this emission unit will not adversely impact air quality, and the emission unit 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 62-103.150, 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 within 14 (fourteen) days in the legal advertisement section of a newspaper of general circulation in the area affected. 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. Where there is more than one newspaper of general circulation in the county, the newspaper used must be one with significant circulation in the area that may be affected by the permit. 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: 850/488-1344; Fax 850/ 922-6979) within 7 (seven) days of publication. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-103.150 (6), F.A.C.

The Department will issue the FINAL Permit, in accordance with the conditions of the enclosed DRAFT Permit 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 and requests for public meetings concerning the proposed DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of "PUBLIC NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT." Written comments and requests for public meetings should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this DRAFT Permit, the Department shall issue a Revised DRAFT 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. The procedures for petitioning for a hearing are set forth below. Mediation is not available for this action.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative hearing in accordance with 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, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000, telephone: 850/488-9730, fax: 850/487-4938. Petitions must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. A petitioner must 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 28-5.207 of the Florida Administrative Code.

A petition must contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of the facts that the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement identifying the rules or statutes that the petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action that the petitioner wants the Department to take with respect to the action or proposed action addressed in this notice of intent.

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 of intent. 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. 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.



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 (including the PUBLIC NOTICE and the DRAFT permit) was sent by certified mail (*) and copies were mailed by U.S. Mail before the close of business on: 12-22-97 to the person(s) listed:

- Mr. Clayton Roesler *, FGT
- Mr. Bill Thomas, SWD
- Mr. J. Campbell, EPCHC

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to §120.52(7), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

Keni Joben 12-22-97
(Clerk) (Date)

DRAFT

PERMITTEE:

Florida Gas Transmission Company
Post Office Box 945100
Maitland, Florida 32794-5100

Authorized Representative:

Mr. Clayton Roesler
Division Environmental Specialist

FID No.	0570438
Permit No.	AC29-228821(A)
SIC No.	4922
Project:	Combustion Turbine 3003
Expires:	March 31, 1998

PROJECT AND LOCATION:

Re-issued air construction permit for a 1202 bhp combustion turbine, Unit No. 3003, at the Florida Gas Transmission Compressor Station No. 30, 2 miles east of State Highway 39 on Griffin Road near Plant City, Hillsborough County. UTM coordinates are Zone 17; 391.89 km E; 3106.61 km N.

STATEMENT OF BASIS:

This construction permit is reissued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and the Florida Administrative Code (F.A.C.) Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297. The above named permittee is authorized to construct the project 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 of Environmental Protection (Department).

Attached appendices are made a part of this permit:

Appendix GC Construction Permit General Conditions
Appendix SC Emission Unit(s) Specific Conditions

Howard L. Rhodes, Director
Division of Air Resources
Management

APPENDIX SC
Specific Conditions

DRAFT

1. This permit supersedes permit AC29-228821, dated September 23, 1993 and its revision dated August 27, 1996. The provisions of the air construction AC29-228821, dated September 23, 1993 and the revision dated August 27, 1996 (attached) are incorporated into this air construction permit except for the changes that follow in Specific Conditions 2 and 3 below:
2. Original Specific Condition No. 1 as revised on August 27, 1996 is hereby further revised as follows:

NOx emissions shall not exceed ~~42~~150 ppmv at 15% oxygen on a dry basis (based on 100% load conditions). Annual emissions shall not exceed 17.3 TPY.
3. The original General Conditions are replaced by the attached conditions with updated references to applicable statutes.



Florida Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

PERMITTEE:
Florida Gas Transmission Company
P.O. Box 1188
Houston, Texas 77251-1188

Permit Number: AC 29-228821
Expiration Date: June 30, 1995
County: Hillsborough
Latitude/Longitude: 28°04'55"N
82°06'01"W
Project: Natural Gas Turbine
No. 3003) Station No. 30

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 17-210, 212, 272, 275, 296, and 297 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawings, plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the construction of one natural gas fired turbine and associated support equipment to be located on Griffin Road, 2 miles east of State Highway 36, Plant City, Hillsborough County, Florida. The UTM coordinates are Zone 17, 392.895 km East and 3106.61 km North.

The source shall be constructed in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. DEP Form 17-1.202(1) Application to Operate/Construct Air Pollution Sources.
2. Florida Gas Transmission's letter dated April 27, 1993.

PERMITTEE:
Florida Gas Transmission Company

Permit Number: AC 29-228821
Expiration Date: June 30, 1995

GENERAL CONDITIONS:

c. Records of monitoring information shall include:

- the date, exact place, and time of sampling or measurements;
- the person responsible for performing the sampling or measurements;
- the dates analyses were performed;
- the person responsible for performing the analyses;
- the analytical techniques or methods used; and
- 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.

SPECIFIC CONDITIONS:

Emission Limits

1. The maximum allowable emissions* from this source shall not exceed the emission rates as follows:

Pollutant	lbs/hr	tons/yr	Emission Factor
Nitrogen Oxides**	3.95	17.3	1.49 g/bhp-hr
Carbon Monoxide	5.88	25.75	2.22 g/bhp-hr
Volatile Organic Compounds (non-methane)	0.25	1.10	0.95 g/bhp-hr
Particulate Matter (TSP)	0.077	0.34	5 lbs/MMscf
Particulate Matter (PM ₁₀)	0.077	0.34	5 lbs/MMscf
Sulfur Dioxide	0.44	1.94	10 gr S/100scf

**NOx emission standard shall not exceed 42 ppmv at 15% oxygen on a dry basis.

*Based on 100% load conditions.

2. Visible emissions shall not exceed 10% opacity.

Operating Rates

3. This source is allowed to operate continuously (8760 hours per year).

4. This source is allowed to use natural gas only.

SPECIFIC CONDITIONS:

10. Initial compliance with the total volatile organic compounds will be determined by EPA Method 25A or Method 18. Thereafter, except as provided in Rule 17-297.340(2), compliance with the total VOC emission limits will be assumed, provided the CO allowable emission rate is achieved.

11. During performance tests, to determine compliance with the NOx standard, measured NOx emissions at 15 percent oxygen will be adjusted to ISO ambient atmospheric conditions by the following correction factor:

NOx = (NOx obs) (Pref/Pobs)^0.5 e^19 (Hobs - 0.00633) (288°K/TAMB) 1.53

where:

NOx = Emissions of NOx at 15 percent oxygen and ISO standard ambient conditions.

NOx obs = Measured NOx emission at 15 percent oxygen, ppmv.

Pref = Reference combustor inlet absolute pressure at 101.3 kilopascals (1 atmosphere) ambient pressure.

Pobs = Measured combustor inlet absolute pressure at test ambient pressure.

Hobs = Specific humidity of ambient air at test.

e = Transcendental constant (2.718).

TAMB = Temperature of ambient air at test.

12. Stack sampling facilities shall be required and shall comply with the requirements of F.A.C. Rule 17-297.345. Test results will be the average of 3 valid runs. The Air Section of the Environmental Protection Commission in Hillsborough County (EPCHC) and the Southwest District office shall be notified at least 30 days in writing in advance of the compliance test(s). The source shall operate between 90% and 100% of permitted capacity during the compliance test. Compliance test results shall be submitted to the EPCHC and the Southwest District offices no later than 45 days after completion.

13. Sulfur and nitrogen content and the lower heating value of the fuel being fired in the combustion turbines shall be determined as specified in 40 CFR 60.334(b). Any request for a future custom monitoring schedule shall be made in writing and directed to the Environmental Protection Commission of Hillsborough County (EPCHC),

PERMITTEE:
Florida Gas Transmission Company

Permit Number: AC 29-228821
Expiration Date: June 30, 1995

SPECIFIC CONDITIONS:

21. Fugitive dust emissions, during the construction period, shall be minimized by covering or watering dust generation areas.

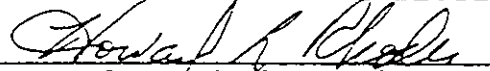
22. Pursuant to F.A.C. Rule 17-210.300(2), Air Operating Permits, the permittee is required to submit annual reports on the actual operating rates and emissions from this facility. These reports shall include, but are not limited to the following: sulfur and nitrogen content, lower heating value of the fuel being fired, fuel usage, turbine inlet and outlet temperature, RPM, hours of operation, air emissions limits, etc. Annual reports shall be sent to the Department's Southwest District office and the EPCHC by March 1 of each calendar year.

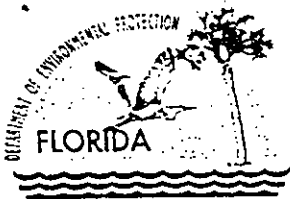
23. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Bureau of Air Regulation prior to 60 days before the expiration of the permit (F.A.C. Rule 17-4.090).

24. An application for an operation permit must be submitted to the EPCHC and the Southwest District offices at least 90 days prior to the expiration date of this construction permit. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. Rules 17-4.055 and 17-4.220).

Issued this 23 day
of September, 1993

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Howard L. Rhodes, Director
Division of Air Resources
Management



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

NOTICE OF PERMIT AMENDMENT

In the Matter of an
Application for Permit by:

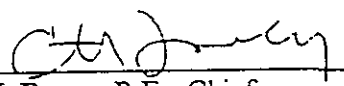
Mr. Allan Weatherford
Florida Gas Transmission Company
Post Office Box 945100
Maitland, Florida 32794-5100

DRAFT Permit Amendment Number:
AC 29-228821
AIRS ID 0570438-002 AC
Hillsborough County (Station No. 30)

Enclosed is the Permit Amendment for the above mentioned compressor station which will modify the permit specific conditions. This facility is located in Hillsborough County, Florida. This permit amendment will be issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Legal Office; 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 of Appeal must be filed within 30 (thirty) days from the date this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.


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



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

August 21, 1996

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Allan Weatherford
Division Environmental Specialist
Florida Gas Transmission Company
Post Office Box 945100
Maitland, Florida 32794-5100

Dear Mr. Weatherford:

RE: Request for Amendment to Air Construction Permit
AC29-228821 (Station No. 30) Hillsborough County
AIRS ID 0570438-002 AC

The Department is in receipt of your letters dated April 12 and May 10, 1996, requesting to amend the above permit to include the EPA custom fuel monitoring schedule and to modify specific conditions Nos. 1, 2 and 8.

The Department has reviewed this request and hereby amends the above mentioned permit as follows:

SPECIFIC CONDITION No. 1

This condition will be modified to exclude the emission limits standard for all pollutants except for NO_x and SO₂. The emissions expressed in units of mass (TPY) will remain as a condition of the permit. This facility has already demonstrated initial compliance with the permit limits.

FROM:

POLLUTANT	lbs/hr	tons/yr	Emission Factor
NOx *	3.95	17.3	1.49 g/bhp-hr
CO	5.88	25.75	2.22 g/bhp-hr
VOC(s) (non-methane)	0.25	1.10	0.95 g/bhp-hr
PM	0.077	0.34	5 lbs/MMscf
PM10	0.077	0.34	5 lbs/MMscf
S02	0.44	1.94	10 gr S/100scf

*NOx emission standard shall not exceed 42 ppmv at 15% oxygen on a dry basis.

TO:

Standard for Sulfur Dioxide [40 CFR 60.333(a)]

The owner or operator shall not cause to be discharge into the atmosphere from any gas turbine any gases which contain sulfur dioxide in excess of 0.015 percent by volume at 15 percent oxygen and on a dry basis. Annual emissions shall not exceed 1.94 TPY.

Standard for Nitrogen Oxides

NOx emissions shall not exceed 42 ppmv at 15% oxygen on a dry basis. (Based on a 100% load conditions). Annual emissions shall not exceed 17.3 TPY.

SPECIFIC CONDITION No. 2

FROM:

Visible Emissions shall not exceed 10% opacity.

TO:

Visible emissions shall not exceed 20% opacity.

SPECIFIC CONDITION No. 8

Mr. Allan Weatherford
Florida Gas Transmission
Station No. 30
Page 3

FROM:

Compliance with the allowable emission limits shall be determined within 60 days after achieving the maximum production rate at which this facility will be operated, but not later than 180 days after initial start-up and annually thereafter except as provided in Specific Condition 10, below, by the following reference methods as described in 40 CFR 60, Appendix A (July 1992 version) and adopted by reference in Chapter 17-297, F.A.C.

Method 1	Sample and Velocity Traverses
Method 2	Volumetric Flow Rate
Method 3 or 3A	Gas Analysis
Method 9	Determination of the Opacity of the Emissions from Stationary Sources
Method 10	Determination of the Carbon Monoxide from Stationary Sources
Method 20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Gas Turbines
Method 18	Measurement of Gaseous Organic Compounds Emissions by Gas Chromatography
Method 25A	Determination of Total Gaseous Organic Concentrations Using a Flame Ionization Analyzer

TO:

Compliance with the allowable emission limits shall be determined by the following EPA reference methods as described in 40 CFR 60, Appendix A and adopted by reference in Chapter 62-297, F.A.C.

Method 1	Sample and Velocity Traverses
Method 2	Volumetric Flow Rate
Method 3 or 3A	Gas Analysis
Method 9	Determination of the Opacity of the Emissions from Stationary Sources
Method 20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Gas Turbines

Since this source already demonstrated initial compliance with permitted emission limits, subsequent testing frequency (in operating permits) shall be as determined by the Hillsborough County Environmental Protection Commission (EPC) office.

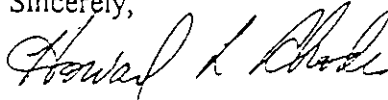
Mr. Allan Weatherford
Florida Gas Transmission
Station No. 30
Page 4

CUSTOM FUEL MONITORING SCHEDULE

The custom monitoring schedule, when approved by EPA, will be incorporated by reference. Currently, EPA is in the process of approving the FGT request.

This letter must be attached to the above mentioned permit and shall become a part of the permit.

Sincerely,



Howard L. Rhodes, Director
Division of Air Resources
Management

Attachment to be Incorporated

Mr. Allan Weatherford's letters of April 12 and May 10, 1996.

source wells in Texas and Louisiana for delivery throughout Florida. The proposed engine will incorporate dry low NOx combustion technology. The engine to be installed at compressor station No. 30 is currently operating under a Florida Department of Environmental Regulation permit (AO 53-20944-Engine No. 3201) at Compressor Station No. 32, in Polk County. As part of this project, the Polk County compressor unit and associated auxiliary equipment will be deactivated at Compressor Station No 32, transported to Compressor Station No. 30 and reactivated. A flow diagram of a typical compressor unit is presented in Figure 2-1.

III.1 Background Information

Hillsborough County existing compressor station consists of two (2) Solar Saturn T-1200 turbine engines (note: both units are remanufactured T-1001 turbines, providing T-1200 performance). This compressor station began operations in 1970 when engine 3001 was installed. A second identical unit (3002) was added to the station in 1985. These existing turbines are not modified as part of this Phase III expansion project.

In general, the FGTC Phase III expansion project will be increasing the natural gas transport capacity of the existing Florida gas pipeline system. The scope of the work for Phase III includes expansions by the addition of state-of-the art compressor engines at four existing compressor stations and two new proposed compressor stations. The proposed engines and turbine engines would be used solely for the purpose of transporting natural gas in the pipeline for distribution in Florida. The main gas pipeline and the approximate locations of the existing and proposed compressor stations along the main pipeline are shown in Figure 1-1.

IV. RULE APPLICABILITY

The proposed project is subject to preconstruction review under the provisions of Chapter 403, Florida Statutes, and Florida Administrative (F.A.C.) Chapters 17-209 through 17-297.

This plant is located in an area (Hillsborough County) designated nonattainment for ozone and attainment for all of the other criteria pollutant in accordance with Rule 17-275.500 and 17-275.400, respectively.

The proposed project is exempt from review under F.A.C. Rule 17-212.400 Prevention of Significant Deterioration (PSD) because this new source is considered a minor emitting facility for purpose of the PSD regulations under (250 TPY).

The proposed facility shall comply with applicable provisions of F.A.C. Chapter 17-297, Stationary Sources-Emissions Monitoring; F.A.C. 17-296, Stationary Sources-Emissions Standards; F.A.C. Rule

17-296.310 General Particulate Emission Limiting Standards; F.A.C. Rule 17-296.320, General Pollutant Limiting Standards. The proposed project will be reviewed in accordance with F.A.C. Rule 17-212.300, Sources not Subject to PSD review or Nonattainment Requirements.

V. SOURCE IMPACT ANALYSIS

V.1 EMISSION LIMITATIONS

The proposed engine will incorporate dry low-NOx combustion technology. Dry combustion techniques are designed to alter the conditions in the combustion chamber to influence the temperature, residence time, and mixing of air and fuel so as to reduce the amount of NOx formed. The state-of-the-art concept in designing a low-NOx turbine involves raising the air-to-fuel ratio in the combustion primary zone and thoroughly premixing primary combustion air and fuel. This reduces NOx formation by lowering the average flame temperature in the combustor primary zone and avoiding localized hot spots. Dry low-NOx combustion is a technically feasible control method for natural gas pipeline turbines.

The operation of this source will produce emissions of nitrogen oxide (NOx), carbon monoxide (CO), volatile organic compounds (VOC), particulate matter (PM), and sulfur dioxide (SO2) from the burning of natural gas. Potential new VOC emissions from the station include fugitive emissions from new valves and flanges that will be in gas service. Table I summarizes the proposed source emissions and Table II comprises the proposed and total emissions from this station.

Table I
Summary of Emissions
Source ID No. 3003

Pollutant	Max. Potential Emissions From Proposed Turbine (lbs/hr)	Significant Emission Rate (TPY)
Nitrogen Oxides	3.95	40
Carbon Monoxide	5.88	100
Volatile Organic Compounds (non-methane)	0.25	40
Particulate Matter (TSP)		
Particulate Matter (PM ₁₀)	0.06	25
Sulfur Dioxide	0.37	40
Fugitive (VOC Emissions)	0.154	0.68

V.2 AIR QUALITY ANALYSIS

From a technical review of the application, the Department has determined that the construction and operation of this source will not have a detrimental impact on Florida's ambient air quality.

TABLE II

Annual (TPY) Emission Levels
 FGTC's Compressor Station No. 30

SOURCE ID	DESCRIPTION	NO _x	CO	VOC (NM/NE, HC)	SO ₂	PM
EXISTING FACILITY						
	COMPRESSOR ENGINES:					
3001	1202 bhp Turbine Engine	14.43	8.64	0.22	1.58	0.28
3002	1202 bhp Turbine Engine	14.43	8.64	0.22	1.58	0.28
	OTHER SOURCES:	—	—	0.17	—	—
	EXISTING TOTAL	28.86	17.28	0.61	3.16	0.56
PROJECT RELATED						
	COMPRESSOR ENGINE:					
	1202 bhp Turbine Engine	17.30	25.75	1.10	1.62	0.26
	TANKS:					
Tank 1	Used Lube Oil Tank	—	—	0.00**	—	—
Tank 2	Used Lube Oil Tank	—	—	0.00**	—	—
	FUGITIVE	—	—	0.13	—	—
	PROJECT TOTAL	17.30	25.75	1.23	1.62	0.26
	STATION TOTAL ***	46.16	43.03	1.84	4.78	0.84

* - estimated fugitive emissions from equipment leaks only.

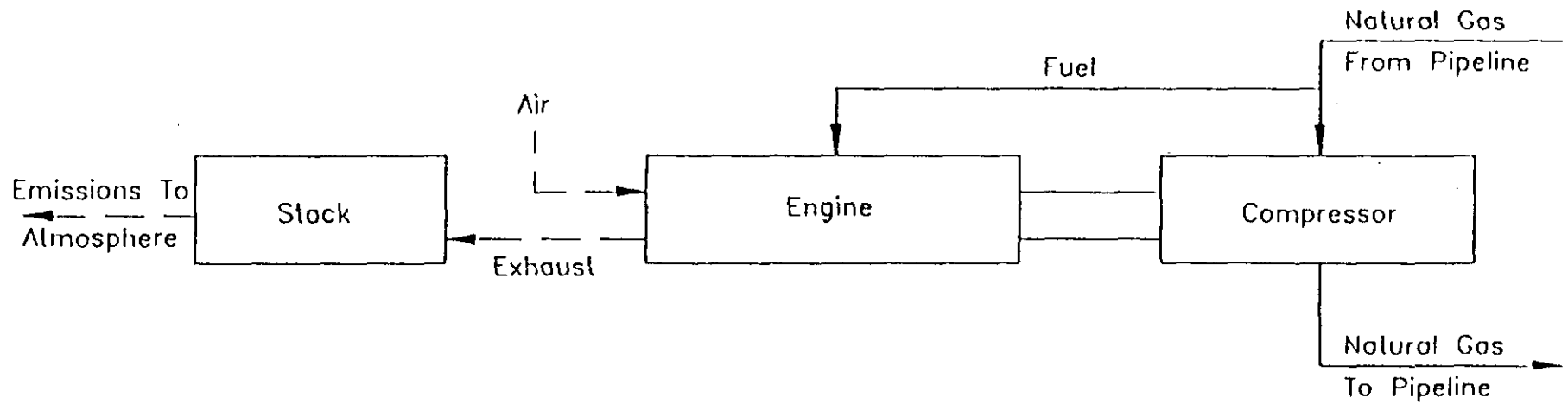
** - actual emissions are insignificant at 0.00002 TPY for Tank 1 and 0.00002 TPY for Tank 2.

*** - STATION TOTAL = EXISTING + PROJECT

VI. CONCLUSION

Based on the information provided by Florida Gas Transmission Company, the Department has reasonable assurance that the proposed project, as described in this evaluation, and subject to the conditions proposed herein, will not cause or contribute to a violation of any air quality standard, PSD increment, or any other technical provision of Chapter 17-209 through 17-297 of the Florida Administrative Code.

Approved
#41755



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FIGURE 2-1
PROCESS FLOW DIAGRAM
OF AN
ENGINE-COMPRESSOR UNIT

DRAWN	DC/SH	DATE	11-6-92	PROJECT NUMBER
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Memorandum

Florida Department of
Environmental Protection

TO: Clair Fancy

THRU: Al Linero  12/19

FROM: Teresa Heron

DATE: December 19, 1997

SUBJECT: Florida Gas Transmission (FGT)
AC29-228821A - Station No. 30 Hillsborough County

Attached is the Public Notice package for re-issuance of the construction permit for FGT Station No. 30 . The re-issuance of this permit is for the amendment of Specific Condition No.1. This condition lists a NO_x standard of 42 ppmv at 15% oxygen on a dry basis for turbine 3003. This standard was inadvertently set for this turbine in the original construction permit issued in 1993. This Station did not go PSD or BACT review. The condition probably strayed over from the permits which did undergo PSD/BACT review. Hourly and annual emission limits for NO_x from this unit are correct and remain unchanged.

I recommend your approval and signature.

AAL/aal

Attachments