



Department of Environmental Protection

Lawton Chiles
Governor

Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
February 29, 1996

3/1/96
Virginia B. Wetherell
Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Leonard Shapiro
Project Manager
Cypress Cogeneration Company
2707 North Loop, 8th Floor
Houston, Texas 77251

Re: Cypress Cogeneration Company
Combustion Turbine - 0250470-001-AC

Dear Mr. Shapiro:

Enclosed is one copy of the Preliminary Determination and draft Air Construction Permit for the Dade County Government Center Cogeneration Facility Combustion Turbine located at Dade County Downtown Government Center, Miami, Florida 33128, Dade County is enclosed. The Department's Notice of Intent to Issue Air Construction Permit and the "Public Notice" are also included. The "Public Notice" must be published within 30 days of receipt of this letter.

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 address. If you have any other questions, please contact Edward Svec at (904)488-1344.

Sincerely,

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

CHF/ES/t

Enclosures

cc: I. Goldman, SED
P. Wong, DERM

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

CERTIFIED MAIL-RETURN RECEIPT REQUESTED

In the Matter of an
Application for Permit by:

Mr. Leonard Shapiro
Project Manager
Cypress Cogeneration Company
2707 North Loop, 8th Floor
Houston, Texas 77251

DRAFT Permit No.: 0250470-001-AC
Dade County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit (copy of DRAFT Permit enclosed) for the source detailed in the application specified above, for the reasons stated below.

The applicant, Cypress Cogeneration Company, applied on December 4, 1995 to the Department for a permit to construct for a combustion turbine located at the Dade County Downtown Government Center, Miami, Dade County, Florida 33128.

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 source is not exempt from permitting procedures. The Department has determined that an air construction permit is required at the described facility.

The Department intends to issue this air construction permit based on the belief that reasonable assurances have been provided to indicate that operation of the source will not adversely impact air quality, and the source will comply with all appropriate provisions of Chapters 62-4, 62-210, 62-212, 62-296, and 62-297, F.A.C.

Pursuant to Sections 403.815 and 403.0872, F.S., and Rules 62-103.150 and 62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed "Public Notice." The notice shall be published one time only within 30 (thirty) 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 2400 Blair Stone Road, Tallahassee, Florida 32399-2400 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.

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 concerning the proposed permit issuance action for a period of 30 (thirty) days from the date of publication of the "Public Notice." Written comments should be provided to the Department's Bureau of Air Regulation at 2400 Blair Stone Road, 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.

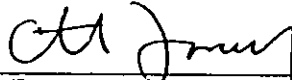
In addition, any persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. Petitions filed by the permit applicant and the parties listed below must be filed within 14 (fourteen) days of receipt of this intent. Petitions filed by other persons must be filed within 14 days of publication of the public notice or within 14 days of the receipt of this intent, whichever first occurs. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The petition shall contain the following information: (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the proposed source will operate; (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 facts which the petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes 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 the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this DRAFT Permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above, and be filed (received) within 14 days of receipt of this intent in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



C. H. Fancy, P.E., Chief
Bureau of Air Regulation
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(904) 488-1344

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF INTENT TO ISSUE PERMIT and all copies were mailed before the close of business on 3-1-96 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on
this date, pursuant to Section 120.
§52(11), F.S., with the designated
Department Clerk, receipt of which is
hereby acknowledged.

 3-1-96
(Clerk) (Date)

Copies furnished to:
I. Goldman, SED
P. Wong, DERM

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
NOTICE OF INTENT TO ISSUE AIR CONSTRUCTION PERMIT

DRAFT Permit No.: 0250470-001-AC
Dade County

The Department of Environmental Protection (Department) gives notice of its intent to issue an air construction permit to Cypress Cogeneration Company for the construction of a combustion turbine located at the Dade County Government Center, Miami, Dade County, Florida 33128. A Best Achievable Control Technology (BACT) determination was not required. The applicant's name and address are: Mr. Leonard Shapiro, Project Manager, Cypress Cogeneration Company, 2707 North Loop, 8th Floor, Houston, Texas 77251.

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 concerning the proposed DRAFT Permit issuance action for a period of 30 (thirty) days from the date of publication of this Notice. Written comments should be provided to Department's Bureau of Air Regulation, at 2600 Blair Stone Road, 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.

In addition, any person whose substantial interests are affected by this proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (FS). 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, Tallahassee, Florida 32399-3000 within 14 (fourteen) days of publication of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information; (a) The name, address, and the telephone number of each petitioner, the applicant's name and address, the Department 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 facts which petitioner contends warrants reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and, (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this DRAFT Permit. Persons whose

substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice, in the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000. Failure to petition within the allotted time frame constitutes a waiver of any rights such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

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 Dade County Department of Environmental Resources Management, 33 Southwest Second Avenue, Suite 900, Miami, Florida 33130-1540 and the Department of Environmental Protection, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. The complete project file includes the Draft Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact Edward J. Svec at the Department's address and at (904)488-1344 for additional information.

**Technical Evaluation
and
Preliminary Determination**

**Cypress Cogeneration Company
Dade County
Miami, Florida**

**Construction Permit Number
0250470-001-AC**

**Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation**

March 1, 1996

I. Application

A. Applicant and Address

Cypress Cogeneration Company
2707 North Loop, 8th Floor
Houston, Texas 77251

B. Project and Location

The applicant intends to install and operate a combustion turbine at the Dade County Downtown Government Center in Miami, Dade County, Florida. The combustion turbine, a GE LM 2500 CT unit, will be capable of generating approximately 17.1 megawatts of electricity. The power generated will be used to comply with the requirements of existing power purchase agreements with Florida Power & Light Company and Dade County. The UTM coordinates of the project are Zone 17, 580.5 km East and 2850.9 km North.

C. Process and Controls

to control NO_x emissions
The proposed GE LM 2500 CT combustion turbine will operate in simple-cycle mode and ~~will be an advanced dry low NO_x unit.~~ *nominal* The other components of the unit are a compressed gas skid, a water injection skid and step-up transformers. *use water injection* The unit will burn natural gas as the primary fuel. No backup fuel has been proposed. The proposed unit will have a *normal* electrical output of 17.1 MW and a maximum heat input of *174.7* MMBtu/hr at average ambient conditions. The turbine is a minor emission source of sulfur dioxide, particulate matter, nitrogen oxides, carbon monoxide, volatile organic compounds, ~~beryllium, and inorganic arsenic.~~ *and*

D. SIC and SCC

1. The Standard Industrial Code is:

o 4911: Electric Services

2. The Source Classification Code is:

o Internal Combustion - Electric Generation 2-01-002-01 10⁶ cubic feet natural gas burned (turbine)

II. Rule Applicability

The proposed project is subject to preconstruction review in accordance with Chapter 403, Florida Statutes, Florida Administrative Code (F.A.C.) Chapters 62-210, 62-212, and 62-296 and 40 CFR (July 1994 version).

received on December 4, 1995 and
The application package was deemed complete on ~~December 4, 1995~~
January 6, 1996.

The existing facility is a major facility (emits 100 tons per year or more of any pollutant) for nitrogen oxides and carbon monoxide pursuant to F.A.C. Rule 62-296.200 (106) Definitions.

The facility is located in Dade County which is an area designated as attainment for all pollutants ~~except ozone~~ pursuant to F.A.C. Rule 62-275.400. Dade County is designated as a ~~moderate nonattainment~~ area for the air pollutant ozone pursuant to F.A.C. Rule 62-275.410-
Maintenance *.600*

The following table exhibits the net potential / allowable pollutant emissions from the proposed project in tons per year (TPY):

Table 1

Source	Net Potential / Allowable Pollutant Emissions (TPY)					
	PM	NO _x	CO	VOC	SO ₂	PM ₁₀
Turbine:	10.5	104.7	202.1	25.6	1.8	10.5

Note: Potential Annual Allowable Emissions are based on an actual annual use limit of 7,000 hours per year at maximum capacity as proposed by the applicant.

Since the facility category is not listed in Table 212.400-1 Major Facility Categories, the current permitted allowable emissions for any pollutant are less than 250 TPY and the potential emissions of any pollutant are less than 250 TPY, the proposed project is considered a minor modification to a minor facility and is exempted from the preconstruction review requirements of F.A.C. Rule 62-212. However the proposed project is subject to the requirements of F.A.C. Rule 62-296 Stationary Sources - Emission Standards and the Federal Standards of Performance for New Stationary Sources (NSPS) 40 CFR 60 Subpart GG Standards of Performance for Stationary Gas Turbines.

F.A.C. Rule 62-296.500(1)(b) requires that major NO_x (greater than or equal to 100 TPY) in Dade County are subject to the Reasonably Available Control Technology (RACT) rules in F.A.C. Rule 62-296-570. This rule requires annual emissions tests for units not equipped with a continuous emission monitoring system and limits the NO_x emissions from any gas turbine to 0.50 pounds per million Btu while firing natural gas. *The project NO_x emission rate is 0.155 lb/MMBtu and, therefore, complies with the RACT rule.*

40 CFR 60.330 Subpart GG Standards of Performance for Stationary Gas Turbines, adopted by reference in F.A.C. Rule 62-296.800, applies to the proposed gas turbine because its heat input exceeds 10 million Btu and greater than one third of the electric output will be sold to a utility power distribution system. The NSPS limits the emissions of NO_x from the proposed gas turbine to 100.3 PPM dry basis corrected to 15% oxygen, SO₂ to 0.015% by volume dry basis at 15% oxygen and the sulfur content of the fuel to no more than 0.8% by weight. Additionally, since water injection is proposed to control NO_x, the fuel consumption and water to fuel ratio must be continuously monitored.

Initial and annual nitrogen oxides, sulfur dioxide and oxygen concentrations compliance tests shall be conducted using EPA Method 20 pursuant to F.A.C. Rule 62-297 and 40 CFR 60, Appendix A.

Initial and annual carbon monoxide emissions compliance tests shall be conducted using EPA Method 10 as requested by the applicant and pursuant to F.A.C. Rule 62-297 and 40 CFR 60, Appendix A.

Visible emissions shall be less than 20% opacity, pursuant to F.A.C. Rule 62-296.310(2)(a). Initial and annual compliance tests shall be conducted using EPA Method 9 pursuant to F.A.C. Rule 62-297 and 40 CFR 60, Appendix A.

The proposed project is subject to the provisions of F.A.C. Rules 62-210.650: Circumvention and 62-210.700: Excess Emissions.

III. Summary of Emissions

The proposed project will have allowable emission limits and standards for the pollutants PM, NO_x, CO, VOC, SO₂, and PM₁₀. The maximum allowable emissions from the proposed gas turbine shall not exceed the following limits except during periods of startup, shutdown and malfunction pursuant to F.A.C. Rule 62-210.700. The emission limits are based on the applicant's request and vendor specifications provided to the Department.

MAXIMUM ALLOWABLE EMISSION LIMITS

<u>Pollutant</u>	<u>Standard</u>	<u>Lbs/Hr</u>	<u>TPY</u>
PM	Good combustion; visible emissions shall not exceed 10% ^{20%} opacity	3.0	10.5
NO _x	42 ppmvd @ 15% Oxygen	29.9	104.7
CO	Good Combustion	57. 4 ⁷	202.1
VOC	Good Combustion and not exceed CO limits	7.31	25.6
SO ₂	0.015% by volume dry basis @ 15% Oxygen Based on 1 gram / 100 of natural gas.	0.53	1.8
PM ₁₀	Good combustion; visible emissions shall not exceed 10% ^{20%} opacity	3.0	10.5

These values are calculated using 7,000 hours of operation, a maximum heat input of 174.⁷ MMBtu/hr, and a flow of 99,978 dscfm.

B. Ambient Air Quality Analysis

Based on a review of the proposed project, an air quality analysis was not required.

IV. Conclusion

Based on the information provided by Cypress Cogeneration Company, The Department has reasonable assurance that the modification of the facility by installing the proposed gas turbine, 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 62-212 of the Florida Administrative Code.



Department of Environmental Protection

Not Signed

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

Permittee:
Cypress Cogeneration Company
2702 North Loop, 8th Floor
Houston, Texas 77251

Permit Number: 0250470-001-AC
Expiration Date: 12/31/96
County: Dade
Latitude/Longitude: 25°46'32"
80°11'50"
Project: GE LM 2500 CT
Combustion Turbine

This permit is issued under the provision of Chapter 403, Florida Statutes (F.S.), and Chapters 62-4 and 62-212, Florida Administrative Code (F.A.C.). 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 and specifically described as follows:

For modification of the existing facility by installing a GE LM 2500 CT combustion turbine located at the Dade County Downtown Government Center in Miami, Dade County, Florida. The UTM coordinates of the site are Zone 17, 580.5 km E and 2850.9 km N. The combustion turbine will burn only natural gas, have a maximum heat input of 174.2 million Btu per hour and be capable of generating 17.1 megawatts of electric power.

174.7
The emission units shall be constructed (modified) in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachment listed below:

1. Application received December 4, 1995.

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

GENERAL CONDITIONS:

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, F.S. 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), F.S., the issuance of this permit does not convey any 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 of 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 F.S. 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.

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

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 any 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 F.S. or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, F.S. 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 F.S. after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by F. S. or Department rules.

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

11. This permit is transferable only upon Department approval in accordance with Rules 62-4.120 and 62-30.300, 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:

- () Determination of Best Available Control Technology (BACT)
- () Determination of Prevention of Significant Deterioration (PSD)
- (X) Compliance with New Source Performance Standards (NSPS)

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 for 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:
 - 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.

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

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:

1. The combustion turbine shall operate no more than 7,000 hours per year, as requested by the permittee.
2. The combustion turbine shall burn only natural gas.
at the maximum heat input rate of 174.7 MM Btu/hr (184,672 cf/hr).
3. The heat input to the combustion turbine shall not exceed 174.1 million Btu per hour (LHV).
4. The permittee shall comply with all applicable requirements in 40 CFR 60, Subpart GG- Standards of Performance for Stationary Gas Turbines.

5. Maximum emissions from the combustion turbine shall not exceed any of the following:

Pollutant	Emission Standard	lbs/hr	TPY
SO ₂	0.8% by weight sulfur in fuel <i>0.015% by volume (Natural Gas)</i>	0.53	1.8
NO _x	42 ppmvd @ 15% O ₂	29.9	104.7
CO	Good combustion	57.7	202.1
VOC	Good combustion and not exceed the CO limits	7.31	25.6

Visible emissions shall not exceed 20 percent opacity, F.A.C. Rule 62-296.310(2)(a).

6. Initial and annual compliance tests for NO_x shall be conducted using EPA Method 20 in accordance with F.A.C Rule 62-297 and 40 CFR 60 Appendix A.

7. Initial and annual compliance tests for CO shall be conducted using EPA Method ¹⁰ in accordance with F.A.C. Rule 62-297 and 40 CFR 60 Appendix A.

8. Initial and annual compliance tests for visible emissions shall be conducted using EPA Method 9 in accordance with F.A.C. Rule 62-297 and 40 CFR 60 Appendix A.

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

- 9-8. Initial and annual compliance with the SO₂ limits and the fuel sulfur content will be determined through fuel analysis in accordance with 40 CFR 60.335.
- 10-9. The unit will be assumed to be in compliance with the VOC standard provided the CO emissions are met.
- 11-10. The compliance test reports shall be submitted to the Department's Southeast District office and Dade County Department of Environmental Management within 45 days of completion of the last test run.
- 12-11. The Department's Southeast District office and Dade County Department of Environmental Management shall be notified in writing at least 15 days in advance of any emission test required by this permit. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 95-100 percent of the manufacturer's rated heat input achievable for the average ambient (or conditioned) air temperature during the test. If it is impracticable to test at capacity, then sources may be tested at less than capacity. In such cases, the entire heat input vs. inlet temperature curve will be adjusted by the increment equal to the difference between the design heat input value and 105 percent of the value reached during the test. Data, curves, and calculations necessary to demonstrate the heat input rate correction at both design and test conditions shall be submitted to the Department with the compliance test report.
- 13-12. An annual operation report shall be submitted to the Department's Southeast District office and Dade County Department of Environmental Management by March 1 of each year pursuant to Rule 62-210.370(2), F.A.C.
- 14-13. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Bureau of Air Regulation prior to 60 days before the expiration of the permit (Rule 62-4.090, F.A.C.).
- 15-14. An Application for an operation permit must be submitted to the Department's Southeast District office and Dade County Department of Environmental Management 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 while 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).

PERMITTEE:
Cypress Cogeneration Company

PERMIT NUMBER: 0250470-001-AC

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

Howard L. Rhodes, Director
Division of Air Resources
Management