Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

September 15, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Brian Beals, Section Chief
Air, Radiation Technology Branch
Preconstruction/HAP Section
US EPA Region IV
61 Forsyth Street
Atlanta, GA 30303

Re: City of Tallahassee Utility Services
Purdom Unit 8, Combustion Turbine and Heat Recovery Steam Generator
DRAFT Permit No. PSD-FL-239

Dear Mr. Beals:

Enclosed is a marked up copy of the draft PSD permit and BACT which was mailed to you on July 1. Please send your written comments on the applicant's proposed custom fuel monitoring schedule as highlighted on page 8 and 9. Note that the Subpart GG limit on SO_2 emissions is either 150 ppmvd @ 15% O_2 or a fuel sulfur limit of 0.8% sulfur. Neither of these limits could conceivably be violated by the use of pipeline quality natural gas which results in a maximum SO_2 emission rate of 0.0006 lb/MMBtu (40 CFR 75 Appendix D Section 2.3.1.4). The sulfur content of pipeline quality natural gas in Florida has been estimated at a maximum of 0.003 % sulfur.

Please comment on Specific Condition F1 which allows the use of the acid rain required NOx CEMS for demonstrating compliance as well as reporting excess emissions. The Subpart GG requirements for the water-to-fuel monitoring system (fuel oil only since dry Low NOx burners are used for gas firing) are less stringent than the use of the NOx CEMS for determining excess emissions.

I recommend your approval of the custom fuel monitoring schedule and these NOx monitoring provisions. If you have any questions on these matters please contact me at 904/488-1344.

Sincerely,

Martin Costello, P.E.
New Source Review Section

MC/mc

Enclosures

■ 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.

2. ☐ Restricted Delivery
Consult postmaster for fee.

Is your RETURN ADDRESS completed on the r

3. Article Addressed to:
Jernette Curtis E.A.
City of Talla. Utility Ser
308 South Adams St.
Tallahassee, Fl 32301

4a. Article Number
P 265 659 245

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☐ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
7/31/97

5. Received By: (Print Name)
Nancy Strickland

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

6. Signature: (Addressee or Agent)
X Nancy Strickland

PS Form 3811, December 1994 Domestic Return Receipt

Thank you for using Return Receipt Ser

P 265 659 245

US Postal Service
Receipt for Certified Mail
No Insurance Coverage Provided.
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Sent to Jernette Curtis	
Street & Number 308 Talla	
Post Office, State, & ZIP Code Tall. Fl	
Postage	$
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Special Delivery Fee	7-30-97
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Postmark or Date PSO-Fl-239	7-30-97

PS Form 3800, April 1995

FLORIDA

Department of
Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

July 29, 1997

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Jennette Curtis
Environmental Administrator
City of Tallahassee Utility Services
300 South Adams Street
Tallahassee, Florida 32301

Re: Purdom Unit 8, Combustion Turbine and
Heat Recovery Steam Generator
DRAFT Permit No. PSD-FL-239/PA97-36

Dear Ms. Curtis

Enclosed is a revised copy of the "PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT". This replaces the earlier version which was sent on July 1, 1997.

The "PUBLIC NOTICE OF INTENT TO ISSUE PSD 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 Martin Costello or Mr. Linero at 904/488-1344.

Sincerely,

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

CHF/mc

Enclosures

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DRAFT Permit No.: PSD-FL-239
Power Plant Siting No. PA97-36

City of Tallahassee Utility Services
Purdom Generating Station Unit 8
Wakulla County

The Department of Environmental Protection (Department) gives notice of its intent to issue a permit for the Prevention of Significant Deterioration (PSD permit) to the City of Tallahassee for the Purdom Generating Station proposed Unit 8 located in the City of St. Marks, Wakulla County. A Best Available Control Technology (BACT) determination was conducted for particulate matter (PM/PM_{10}), sulfur dioxide (SO_2), nitrogen oxides (NO_x) and carbon monoxide (CO) pursuant to Rule 62-212.400, F.A.C. and 40 CFR 52.21. The applicant's name and address are City of Tallahassee Utility Services, 300 South Adams Street, Tallahassee, FL 32301

The City of Tallahassee has applied to construct Unit 8, a nominal 250 megawatt (MW) combined cycle combustion turbine and heat recovery steam generator to meet its system needs and replace existing conventional steam generating Units 5 and 6. Emissions control will be accomplished by dry low NO_x burners (gas) and water injection (diesel) and primary use of natural gas, an inherently clean fuel. A new 200 foot stack and a cooling tower will be added to the facility for Unit 8.

Other existing units at the plant consist of Unit 7, a nominal 44 MW steam boiler fired by natural gas and/or fuel oil, two older combustion turbines with a nominal rating of 12.5 MW each and a small auxiliary steam boiler fired by natural gas. The City has requested a facility-wide emissions cap for nitrogen oxides (NO_x) and sulfur dioxide (SO_2) to ensure that no increase in these emissions will occur once Unit 8 is constructed. Therefore in the future, NO_x and SO_2 emissions from the facility, including Unit 8, will be less than or equal to these emissions before the addition of Unit 8. Electrical output from this facility will be about three times higher than the current level with the addition of Unit 8.

Total facility-wide annual emissions including those from the project are summarized below:

Pollutant	Current Actual ton/yr	Future Estimated Emissions ton/yr	Net Increase ton/yr
PM_{10}	10.7	59.0	48.3
SO_2	80.0	80.0	0
NO_x	467.0	467.0	0
CO	66.0	193.0	127.0

An air quality impact analysis was conducted. Emissions from the facility will not significantly contribute to or cause a violation of any state or federal ambient air quality standards. The maximum predicted PSD Class II increments of NO_2, SO_2, and PM_{10} consumed by all sources in the area, including this project, will be as follows:

PSD Class II Increment Consumed (mg/m^3)		Allowable Increment (mg/m^3)	Percent Increment Consumed
PM_{10}			
24-hour	3.3	30	11
Annual	0.3	17	2
SO_2			
3-hour	14.4	512	3
24-hour	2.4	91	3
Annual	0.0	20	0
NO_2			
Annual	6.2	25	25

The maximum predicted PSD Class I increments of NO_2, SO_2, and PM_{10} in the St. Marks National Wilderness Area and the Bradwell Bay National Wilderness Area consumed by all sources in the area, including this project, will be as follows:

PSD Class I Increment Consumed (mg/m^3)		Allowable Increment (mg/m^3)	Percent Increment Consumed
PM_{10}			
24-hour	0.73	8	9
Annual	0.16	4	4
SO_2			
3-hour	16.9	25	68
24-hour	4.9	5	98
Annual	0.0	2	0
NO_2			
Annual	0.91	2.5	36

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 30 (thirty) 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 issuance of this PSD permit is being coordinated with a certification under the Power Plant Siting Act (Sections 403.501.519, Florida Statutes). If a petition for an administrative hearing on the preliminary determination and proposed PSD permit is filed by a substantially affected person, that hearing shall be consolidated with the certification hearing, as provided under Section 403.507(3), Florida Statutes.

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. Mediation under Section 120.573 is not available for this Draft Permit.

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: 904/488-9370, fax: 904/487-4938. 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 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:

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
NW District Office
160 Government Center
Pensacola, Florida 32501
Telephone:(850) 444-8300
Fax: :(850) 444-8417

The complete project file includes the application, technical evaluations, 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 Administrator, New Resource Review Section at 111 South Magnolia Drive, Suite 4, Tallahassee, Florida 32301, or call 904/488-1344, for additional information.

CITY OF TALLAHASSEE

CITY HALL
300 S. ADAMS ST.
TALLAHASSEE, FL
32301-1731
904/891-0010
TDD 1-800/955-8771

August 11, 1997

CERTIFIED MAIL: P 483 230 298

Mr. Clair H. Fancy, P.E., Chief
Bureau of Air Regulation
Florida Department of Environmental Protection
Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Re: City of Tallahassee Draft Permit No. PSD-FL-239
Sam O. Purdom Generating Station Unit 8
Proof of Publication of Notice

Dear Mr. Fancy:

On Thursday, August 7, 1997, the City of Tallahassee published the Public Notice of Intent to Issue PSD Permit for the referenced emission unit. Attached is a copy of the affidavit received from the Tallahassee Democrat confirming publication.

If you have any questions regarding the proof of publication, please feel free to contact either myself at (904) 891-8850 or Karl Bauer at (904) 891-8851.

Sincerely,

Jennette Curtis

Jennette Curtis
Environmental Administrator

JC/kb

Attachment

cc: Martin Costello, FDEP ✓
Rob McGarrah, COT
Gordon King, COT
Karl Bauer, COT
Gary Sams, HGSS
Angela Morrison, HGSS
Frank Michel, Raytheon
Douglas Fulle, FWENC
Darrel Graziani, FWENC
Analee Moore, Moore/Bowers

CC: EPA
NPS
NWD
B. Owen, PPS

c:\files\msword\enviro\letter\1997\jclt0808.doc

TALLAHASSEE DEMOCRAT
PUBLISHED DAILY
TALLAHASSEE - LEON - FLORIDA

STATE OF FLORIDA COUNTY OF LEON:
Before the undersigned authority personally appeared Lalaena Gonzalez who on oath says
that she is Legal Advertising Representative of the Tallahassee Democrat, a daily newspaper published at Tallahassee in Leon County, Florida; that the attached copy of advertising being a Legal Ad in the matter of

PUBLIC NOTICE...

in the Second Judicial Circuit Court was published in said newspaper in the issues of:

AUGUST 7, 1997

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

Lalaena Gonzalez
LALAENA GONZALEZ
LEGAL ADVERTISING REPRESENTATIVE

Sworn To And Subscribed Before Me 7
Day of August
A.D. 1997

(SEAL) LEE PIERCE MY COMMISSION EXPIRES APRIL 27, 1999 CC 436080 Bonded thru Troy Fain-Insurance NOTARY PUBLIC, STATE OF FLORIDA

Lee Pierce
Notary Public

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DRAFT Permit No.: PSD-FL-239
Power Plant Siting No. PA97-36

City of Tallahassee Utility Services
Purdom Generating Station Unit 8
Wakulla County

The Department of Environmental Protection (Department)gives notice of its intent to issue a permit for the Prevention of Significant Deterioration (PSD permit) to the city of Tallahassee for the Purdom Generating Station proposed Unit 8 located in the city of St. Marks, Wakulla County. A Best Available Control Technology (BACT) determination was conducted for particulate matter (PM/PM10), sulfur dioxide (S02), nitrogen oxides (NOx) and carbon monoxide (CO) pursuant to Rule 62-212.400, F.A.C. and 40 CFR 52.21. The applicant's name and address are City of Tallahassee Utility Services, 300 South Adams Street, Tallahassee, FL 32301.

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Other existing units at the plant consist of Unit 7, a nominal 44 MW steam boiler fired by natural gas and/or fuel oil, two older combustion turbines with a nominal rating of 12.3 MW each and a small auxiliary steam boiler fired by natural gas. The City has requested a facility-wide emissions cap for nitrogen oxides (NOx) and sulfur dioxide (SO2) to ensure that no increase in these emissions will occur once Unit 8 is constructed. Therefore in the future, NOx and SO2 emissions from the facility, including Unit 8, will be less than or equal to these emissions before the addition of Unit 8. Electrical output from this facility will be about three times higher than the current level with the addition of Unit 8.

Total facility-wide annual emissions including those from the project are summarized below:

Pollutants	Current Actual ton/yr	Future Estimated Emissions ton/yr	Net Increase ton/yr
PM10	10.7	59.0	48.3
SO2	80.0	80.0	0
NOx	467.0	467.0	0
CO	66.0	193.0	127.0

An air quality impact analysis was conducted. Emissions from the facility will not significantly contribute to or cause a violation of any state or federal ambient air quality standards. The maximum predicted PSD Class II increments of NO2, SO2, and PM10 consumed by all sources in the area, including this project, will be as follows:

PSD Class II Increment Consumed (mg/m3)		Allowable Increment (mg/m3)	Percent Increment Consumed
PM10			
24-hour	3.3	30	11
Annual	0.3	17	2
SO2			
3-hour	14.4	512	3
24-hour	2.4	91	3
Annual	0.0	20	0
NO2			
Annual	6.2	25	25

The maximum predicted PSD Class I increments of NO2, SO2 and PM10 in the St. Marks National Wilderness Area and the Bradwell Bay National Wilderness Area consumed by all sources in the area, including this project, will be as follows:

PSD Class I Increment Consumed (mg/m3)		Allowable Increment (mg/m3)	Percent Increment Consumed
PM10			
24-hour	0.73	8	9
Annual	0.16	4	4
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24-hour	4.9	5	98
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NO2			
Annual	0.91	2.5	36

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 30 (thirty) 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.

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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. Mediation under Section 120.573 is not available for this Draft Permit.

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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 the 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.

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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:

DRAFT
CONDITIONS OF CERTIFICATION
SAM O. PURDOM GENERATING STATION

The conditions of this certification may be modified in the following manner:

A. The Board hereby delegates to the Secretary authority to modify, after notice and opportunity for hearing, any conditions pertaining to monitoring or sampling.

B. This certification shall be automatically modified to conform to any subsequent amendments, modifications, or renewals made by DEP under a federally delegated or approved program to any separately issued Prevention of Significant Deterioration (PSD) permit, Title V Air Permit, or National Pollutant Discharge Elimination system (NPDES) permit for the certified facility. The City of Tallahassee shall send each party to the original certification proceedings (at the party's last known address as shown in the record of such proceeding) notice of requests submitted by the City of Tallahassee for modifications or renewals of the above listed permits if the request involves a relief mechanism (e.g., mixing zone, variance, etc.) from state standards, a relaxation of conditions included in the permit due to state permitting requirements, or the inclusion of less restrictive air emission limitations in the air permits. DEP shall notify all parties to the certification proceeding of any intent to modify conditions under this section prior to taking final agency act.

C. All other modifications shall be made in accordance with Section 403.516, Florida Statutes.

XI. Construction

A. Standards and Review of Plans

B. Control Measures

C. Environmental Control Program

D. Reporting

XII. Air Quality

A. Facility Information

1. Facility Description

This facility currently consists of three fossil fuel-fired steam generators, two simple cycle combustion turbines and one auxiliary boiler. One of the steam generators, Boiler Number 7, is an Acid Rain Phase II Unit. The total combined electrical generating capacity from the facility is a nominal 112.6 megawatts (MW), of which a nominal 88 megawatts are provided by the steam generators and a nominal 24.6 megawatts are provided by the combustion turbines. The fuels used at this facility are natural gas and various combinations of fuel oil. The auxiliary boiler is only used as a source of steam for plant operations when none of the other steam generating units are operating. Also included in these Conditions are miscellaneous unregulated/exempt emissions units and/or activities.

These Conditions also authorize the City of Tallahassee to install a new combined cycle combustion turbine system, Unit 8, at the existing Purdom facility consisting of a 160 MW (nominal rating) GE MS7231FA combustion turbine with DLN-2 dry low NO_x (gas) and water injection (diesel) burners (Unit 8) and a nonfired heat recovery steam generator (HRSG) with a nominal 90 MW steam turbine. The compressor inlet air will be conditioned by an evaporative cooler when needed. The turbine will be started using the generator and a static start system. A new 200 foot stack and a cooling tower will be added to the facility for Unit 8.

Unit 8 will be located at the City's Sam O. Purdom Generating Station in St. Marks, Wakulla County. Existing steam generating Units 5 and 6 will be permanently shut down once Unit 8 has

completed the initial performance test. Other existing units at the plant consist of Unit 7, a pre-NSPS boiler with a nominal rating of 44 MW fired by natural gas, residual fuel oil or distillate fuel oil; two pre-NSPS distillate fuel oil or natural gas fired combustion turbines with a nominal rating of 12.3 MWs each (GT1 and GT2); and a Subpart Dc auxiliary steam boiler fired by natural gas.

The use of 'Permitting Notes' throughout these Conditions are for informational purposes, only, and are not Conditions of Certification.

2. Summary of Emissions Unit ID No(s). and Brief Description(s).

Regulated Emissions Units:

E.U. ID No.	**Brief Description**
-005	Boiler Number 5 - 300 MMBtu/hour
-006	Boiler Number 6 - 300 MMBtu/hour
-007	Boiler Number 7 - 621 MMBtu/hour (Acid Rain, Phase II Unit)
-008	Combustion Turbine Number 1 - 228 MMBtu/hour
-009	Combustion Turbine Number 2 - 228 MMBtu/hour
-011	Auxiliary Boiler
-012	Combustion Turbine Unit 8 - 1660 MMBtu/hr (Acid Rain, Phase II Unit)

Unregulated emissions Units and/or Activities (See Appendix U-1):

E.U. ID No.	**Brief Description**
-010	Fugitive VOC Sources - Painting Operations
-xxx	General Purpose Engines
-yyy	Emergency Generators

3. Relevant Documents

The following documents are part of these Conditions of Certification:
Appendix E-1, List of Exempt Emissions Units and/or Activities
Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix SS-1, Stack Sampling Facilities (version dated 10/7/96)
Appendix TV-1, Title V Conditions (version dated 2/27/97)
ASP Number 97-B-01

B. Facility-wide Conditions

The following conditions apply facility-wide:

1. Appendix TV-1, Title V Conditions (version dated 2/27/97), is a part of these Conditions. {Permitting note: Appendix TV-1, Title V Conditions, is distributed to the permittee only. Other persons requesting copies of these Conditions shall be provided one copy when requested or otherwise appropriate.}

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]

3. Prevention of Accidental Releases (Section 112(r) of CAA). If required by 40 CFR 68, the permittee shall submit to the implementing agency:

a. a risk management plan (RMP) when, and if, such requirement becomes applicable, and

b. certification forms and/or RMPs according to the promulgated rule schedule.

[40 CFR 68]

4. Exempt Emissions Units and/or Activities. Appendix E-1, List of Exempt Emissions Units and/or Activities, is a part of these Conditions.
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]

5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of these Conditions.
[Rule 62-213.440(1), F.A.C.]

6. General Pollutant Emission Limiting Standards. Volatile Organic Compounds Emissions or Organic Solvents Emissions. The permittee shall allow no person to 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.

{Permitting Note: No vapor emission control devices or systems are deemed necessary nor ordered by the Department as of the issuance date of these Conditions.}
[Rule 62-296.320(1)(a), F.A.C.]

7. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in these Conditions, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

8. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. The portable concrete mixer shall be operated on an as-needed basis. Reasonable precautions include enclosing the activity where practical.

b. Abrasive blasting activities that are associated with normal maintenance and corrosion control activities shall be enclosed where practical.

c. Unconfined emissions associated with the limited on-site traffic shall be controlled by limiting vehicle speeds and unnecessary traffic within the plant grounds

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by applicant in initial Title V permit application received June 14, 1996, and amended by comments received April 25, 1997.]

9. The Department's Northwest District Branch Office (Tallahassee) telephone number for reporting problems, malfunctions or exceedances under these Conditions is (850) 488-3704, day or night, and for emergencies involving a significant threat to human health or the environment is (850) 413-9911. The Department's Northwest District Office (Pensacola) telephone number for routine business, including compliance test notifications, is (850) 444-8364 during normal working hours.

10. The permittee shall submit all compliance related notifications and reports required by these Conditions to the Department's Northwest District Office located at: 160 Governmental Center, Pensacola, Florida 32501-5794.

11. Oxides of Nitrogen - Facility Wide Cap. Annual emissions of NO_x shall not exceed 467 tons per year from the Purdom facility (Unit 8, Unit 7, GT1, GT2, and the auxiliary boiler) on a calendar year basis, as measured by applicable compliance methods.
[Requested by the applicant.]

12. Sulfur Dioxide - Facility Wide Cap. Annual emissions of SO_2 shall not exceed 80 tons per year from the Purdom facility (Unit 8, Unit 7, GT1, GT2, and the auxiliary boiler) on a calendar year basis, as measured by applicable compliance methods.
[Requested by the applicant.]

C. Emissions Unit(s)

Subsection A. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
-005	Boiler Number 5
-006	Boiler Number 6

These emissions units are steam generators designated as "Boiler Number 5" and "Boiler Number 6." Boiler Number 5 is tangentially fired. Each boiler is rated at a maximum heat input of 300 million Btu per hour (MMBtu/hour) while being fueled with natural gas and/or No. 2 thru No. 6 fuel oil. Each boiler nominally produces 220,000 pounds of steam per hour to run a nominal 22 megawatt (electric) turbine-generator (one each).

{Permitting notes: These units pre-date PSD regulations, but are regulated under Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators With More Than 250 Million BTU per Hour Heat Input. Boiler Number 5 began commercial operation in 1958. Boiler Number 6 began commercial operation in 1961. Stack height = 125 feet, exit diameter = 13.0 feet, exit temperature = 344 °F, actual volumetric flow rate = 94,400 acfm. The exhaust from Boiler Number 5 and Boiler Number 6 share the same physical stack. Emissions from the boilers are controlled by proper combustion practices.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum operation heat input rates are as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
5	300	Natural Gas
	300	No. 2 thru No. 6 Fuel Oil
6	300	Natural Gas
	300	No. 2 thru No. 6 Fuel Oil

[Rules 62-4.160(2), 62-210.200(PTE) and 62-296.405, F.A.C.]

A.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **C.11.**
[Rule 62-297.310(2), F.A.C.]

A.3. Methods of Operation - Fuels. The only fuels allowed to be burned in these boilers are natural gas and/or new No. 2 thru No. 6 fuel oil.
[Rule 62-213.410, F.A.C.; and, Applicant Request dated June 24, 1997.]

A.4. Hours of Operation. These emissions units may operate continuously, i.e. 8760 hours/year. The permittee shall maintain an operation log available for Department inspection that documents the total hours of annual operation, including a detailed account of the hours operated on each of the allowable fuels.
[Rule 62-210.200(PTE), F.A.C.; and, AO65-242831, Specific Condition #3.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

A.5. Visible Emissions. Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent. Emissions units governed by this visible emissions limit shall compliance test for particulate matter emissions annually and as otherwise required by Chapter 62-297, F.A.C.
[Rule 62-296.405(1)(a), F.A.C.]

A.6. Visible Emissions - Soot Blowing and Load Change. Visible emissions shall not exceed 60 percent opacity during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.
[Rule 62-210.700(3), F.A.C.]

A.7. Particulate Matter. Particulate matter emissions shall not exceed 0.1 pound per million Btu heat input, as measured by applicable compliance methods.
[Rule 62-296.405(1)(b), F.A.C.]

A.8. Particulate Matter - Soot Blowing and Load Change. Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.
[Rule 62-210.700(3), F.A.C.]

A.9. Sulfur Dioxide. When burning liquid fuel, sulfur dioxide emissions shall not exceed 1.87 pounds per million Btu heat input , as measured by applicable compliance methods. However, the permittee has requested a lower limit of 1.3 pounds per million Btu heat input, as measured by applicable compliance methods.

[Rules 62-296.405(1)(c)1.h. & 62-204.240(1)(a), F.A.C.; and, requested by applicant in initial Title V permit application received June 14, 1996.]

A.10. Sulfur Dioxide - Sulfur Content. The No. 2 thru No. 6 fuel oil sulfur content shall not exceed 1.20 percent, by weight. See specific condition **A.17.** and common condition **C.9.**
[Rule 62-296.405(1)(e)3., F.A.C.; and, requested in a letter by applicant dated March 21, 1997.]

A.11. This emissions unit is also subject to the conditions contained in **Subsection C. Common Conditions**, as specified below.

Excess Emissions

A.12. See common conditions **C.1. - C.3.**

Monitoring of Operations

A.13. Sulfur Dioxide. The permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery. This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization device. See specific conditions A.10., C.8. and C.9.
[Rule 62-296.405(1)(f)1.b., F.A.C.]

A.14. Determination of Process Variables. See common condition **C.4.**

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

A.15. Visible Emissions. See common conditions **C.5., C.6. and C.16.**

A.16. Particulate Matter. See common conditions **C.7. and C.17.**

A.17. Sulfur Dioxide. See specific condition **A.13.** and common conditions **C.8. and C.9.**

A.18. Operating Rate During Testing. See common condition **C.11.**

A.19. Calculation of Emission Rate. See common condition **C.12.**

A.20. Applicable Test Procedures. See common condition **C.13.**

A.21. Required Stack Sampling Facilities. See common condition **C.14.**

A.22. Frequency of Compliance Tests. See common condition **C.15.**

Recordkeeping and Reporting Requirements

A.23. See common conditions **C.18. - C.20.**

Reasonable Assurances

A.24. Fuel Oil Storage Tank and Piping Restrictions. No fuel oil shall be placed into the fuel oil storage tanks, which are connected by a single pipe-line at this time and used to supply fuel oil to Boilers Number 5, Number 6 and Number 7, that exceeds the sulfur limitation specified in specific condition **A.10.**, until Boilers Number 5 and Number 6 are permanently shutdown or separate piping is installed between the fuel oil storage tanks and Boilers 5 and 6 and Boiler 7. [Rule 62-4.070(3), F.A.C.]

Miscellaneous

A.25. Permanent Shutdown. Boilers Number 5 and Number 6 are to be permanently shut down once Unit 8 has completed the initial performance test.
[Applicant's Request in Site Certification Application dated March 7, 1997.]

Subsection B. This section addresses the following emissions unit.

E.U. ID No.	Brief Description
-007	Boiler Number 7, (Phase II Acid Rain Unit)

This is a Riley Stoker Corporation model RX-33 steam generator designated as "Boiler Number 7." It is rated at a maximum heat input of 621 MMBtu/hour while being fueled with natural gas and/or No. 2 thru No. 6 fuel oil. It nominally produces 500,000 pounds of steam per hour to run a nominal 44 MW turbine-generator.

{Permitting notes: This emissions unit is regulated under Acid Rain, Phase II. This unit pre-dates PSD regulations, but is regulated under Rule 62-296.405, F.A.C., Fossil Fuel Steam Generators With More Than 250 Million BTU per Hour Heat Input. Boiler Number 7 began commercial operation in 1966. Stack height = 180 feet, exit diameter = 9.0 feet, exit temperature = 300 °F, actual volumetric flow rate = 180,798 acfm. Emissions from this boiler are controlled by proper combustion practices.}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. The maximum operation heat input rates are as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
7	621	Natural Gas
	621	No. 2 thru No. 6 Fuel Oil; On-Specification Used Oil

[Rules 62-4.160(2), 62-210.200(PTE) and 62-296.405, F.A.C.; and, Applicant's request.]

B.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **C.11.**
[Rule 62-297.310(2), F.A.C.]

B.3. Methods of Operation - Fuels. The fuels that are allowed to be burned in this boiler are natural gas and/or new No. 2 thru No. 6 fuel oil and/or on-specification used oil. (See Specific Condition **B.24.**)
[Rule 62-213.410, F.A.C.; and, Applicant Request dated June 24, 1997.]

B.4. Hours of Operation. This emissions unit may operate continuously, i.e. 8760 hours/year. The permittee shall maintain an operation log available for Department inspection that documents the total hours of annual operation, including a detailed account of the hours operated on each of the allowable fuels.
[Rule 62-210.200(PTE), F.A.C.; and, AO65-242831, Specific Condition #3.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

B.5. Visible Emissions. Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent. Emissions units governed by this visible emissions limit shall compliance test for particulate matter emissions annually and as otherwise required by Chapter 62-297, F.A.C.
[Rule 62-296.405(1)(a), F.A.C.]

B.6. Visible Emissions - Soot Blowing and Load Change. Visible emissions shall not exceed 60 percent opacity during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.

A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more.
[Rule 62-210.700(3), F.A.C.]

B.7. Particulate Matter. Particulate matter emissions shall not exceed 0.1 pound per million Btu heat input, as measured by applicable compliance methods.
[Rule 62-296.405(1)(b), F.A.C.]

B.8. Particulate Matter - Soot Blowing and Load Change. Particulate matter emissions shall not exceed an average of 0.3 pound per million Btu heat input during the 3-hours in any 24 hour period of excess emissions allowed for boiler cleaning (soot blowing) and load change.
[Rule 62-210.700(3), F.A.C.]

B.9. Sulfur Dioxide. When burning liquid fuel, sulfur dioxide emissions shall not exceed 1.87 pounds per million Btu heat input , as measured by applicable compliance methods.
[Rule 62-296.405(1)(c)1.h., F.A.C.]

B.10. Sulfur Dioxide - Sulfur Content. The No. 2 thru No. 6 fuel oil sulfur content shall not exceed 1.70 percent, by weight. See specific condition **B.17.** and common condition **C.9.**
[Rule 62-296.405(1)(e)3., F.A.C.; and, requested by applicant in a letter dated April 16, 1997.]

B.11. This emissions unit is also subject to the conditions contained in **Subsection C. Common Conditions**, as specified below.

Excess Emissions

B.12. See common conditions **C.1. - C.3.**

Monitoring of Operations

{Permitting Note: In accordance with the Acid Rain Phase II requirements, the following continuous monitors are installed on this unit: Gas Fuel Flow, Oil Fuel Flow, NO_X and CO_2.}

B.13. Sulfur Dioxide. The permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery. This protocol is allowed because the emissions unit does not have an operating flue gas desulfurization device. See specific conditions **B.10., C.8. and C.9.**
[Rule 62-296.405(1)(f)1.b., F.A.C.; and, requested by applicant in a letter dated April 16, 1997.]

B.14. Determination of Process Variables. See common condition **C.4.**

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

B.15. Visible Emissions. See common conditions **C.5., C.6.** and **C.16.**

B.16. Particulate Matter. See common conditions **C.7.** and **C.17.**

B.17. Sulfur Dioxide. See specific condition **B.13** and common conditions **C.8.** and **C.9.**

B.18. Operating Rate During Testing. See common condition **C.11.**

B.19. Calculation of Emission Rate. See common condition **C.12.**

B.20. Applicable Test Procedures. See common condition **C.13.**

B.21. Required Stack Sampling Facilities. See common condition **C.14.**

B.22. Frequency of Compliance Tests. See common condition **C.15.**

Recordkeeping and Reporting Requirements

B.23. See common conditions **C.18. - C.20.**

Miscellaneous Conditions.

B.24. Used Oil. Burning of on-specification used oil is allowed at this emissions unit in accordance with all other conditions of these Conditions and the following conditions:

a. On-specification Used Oil Emissions Limitations: This emissions unit is permitted to burn on-specification used oil, which contains a PCB concentration of less than 50 ppm. On-specification used oil is defined as used oil that meets the specifications of 40 CFR 279 - Standards for the Management of Used Oil, listed below. "Off-specification" used oil shall not be burned. Used oil which fails to comply with any of these specification levels is considered "off-specification" used oil.

CONSTITUENT/PROPERTY	ALLOWABLE LEVEL
Arsenic	5 ppm maximum
Cadmium	2 ppm maximum
Chromium	10 ppm maximum
Lead	100 ppm maximum
Total Halogens	1000 ppm maximum
Flash point	100 degrees F minimum

b. Quantity Limitation: This emissions unit is permitted to burn "on-specification" used oil that is generated by the City of Tallahassee in the production and distribution of electricity, not to exceed 10,000 gallons during any consecutive 12 month period.

c. PCB Limitation: Used oil containing a PCB concentration of 50 or more ppm shall not be burned at this facility. Used oil shall not be blended to meet this requirement.

d. Operational Requirements: On-specification used oil with a PCB concentration of 2 to less than 50 ppm shall be burned only at normal source operating temperatures. On-

specification used oil with a PCB concentration of 2 to less than 50 ppm shall not be burned during periods of startup or shutdown.

e. Testing Requirements: The owner or operator shall sample and analyze each batch of used oil to be burned for the following parameters:

Arsenic, cadmium, chromium, lead, total halogens, flash point and PCBs.

Testing (sampling, extraction and analysis) shall be performed using approved methods specified in EPA Publication SW-846 (Test Methods for Evaluating Solid Waste, Physical/Chemical Methods).

f. Record Keeping Requirements: The owner or operator shall obtain, make, and keep the following records related to the use of used oil in a form suitable for inspection at the facility by the Department: [40 CFR 279.61 and 761.20(e)]

(1) The gallons of on-specification used oil generated and burned each month. (This record shall be completed no later than the fifteenth day of the succeeding month.)

(2) The total gallons of on-specification used oil burned in the preceding consecutive 12-month period. (This record shall be completed no later than the fifteenth day of the succeeding month.)

(3) Results of the analyses required above.

g. Reporting Requirements: The owner or operator shall submit to the Northwest District office, within thirty days of the end of each calendar quarter, the analytical results and the total amount of on-specification used oil generated and burned during the quarter.

The owner or operator shall submit, with the Annual Operation Report form, the analytical results and the total amount of on-specification used oil burned during the previous calendar year.

[Rule 62-4.070(3) and 62-213.440, F.A.C., 40 CFR 279 and 40 CFR 761, unless otherwise noted.]

Subsection C. Common Conditions.

{Permitting Note: The following conditions are common to Boilers No. 5, 6 and 7, as specified in Subsections A and B, above, and to the auxiliary boiler and Unit 8 as specified in Subsections E and F, below. They are placed here as a convenience and to avoid duplication.}

Excess Emissions

C.1. Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.]

C.2. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

C.3. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

C.4. Determination of Process Variables.

a. Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

b. Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

C.5. Visible Emissions. The test method for visible emissions shall be DEP Method 9, incorporated in Chapter 62-297, F.A.C. A transmissometer may be used and calibrated according to Rule 62-297.520, F.A.C. See specific condition C.6.
[Rule 62-296.405(1)(e)1., F.A.C.]

C.6. DEP Method 9. The provisions of EPA Method 9 (40 CFR 60, Appendix A) are adopted by reference with the following exceptions:

a. EPA Method 9, Section 2.4, Recording Observations. Opacity observations shall be made and recorded by a certified observer at sequential fifteen second intervals during the required period of observation.

b. EPA Method 9, Section 2.5, Data Reduction. For a set of observations to be acceptable, the observer shall have made and recorded, or verified the recording of, at least 90 percent of the possible individual observations during the required observation period. For single-valued opacity standards (e.g., 20 percent opacity), the test result shall be the highest valid six-minute average for the set of observations taken. For multiple-valued opacity standards (e.g., 20 percent opacity, except that an opacity of 40 percent is permissible for not more than two minutes per hour) opacity shall be computed as follows:

1. For the basic part of the standard (i.e., 20 percent opacity) the opacity shall be determined as specified above for a single-valued opacity standard.

2. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken.

In order to be valid, any required average (i.e., a six-minute or two-minute average) shall be based on all of the valid observations in the sequential subset of observations selected, and the selected subset shall contain at least 90 percent of the observations possible for the required averaging time. Each required average shall be calculated by summing the opacity value of each of the valid observations in the appropriate subset, dividing this sum by the number of valid observations in the subset, and rounding the result to the nearest whole number. The number of missing observations in the subset shall be indicated in parenthesis after the subset average value. [Rule 62-297.401, F.A.C.]

C.7. Particulate Matter. The test methods for particulate emissions shall be EPA Methods 17, 5, 5B, or 5F, incorporated by reference in Chapter 62-297, F.A.C. The minimum sample volume shall be 30 dry standard cubic feet. EPA Method 5 may be used with filter temperature no more than 320 degrees Fahrenheit. For EPA Method 17, stack temperature shall be less than 375 degrees Fahrenheit. The owner or operator may use EPA Method 5 to demonstrate compliance. EPA Method 3 or 3A with Orsat analysis shall be used when the oxygen based F-factor, computed according to EPA Method 19, is used in lieu of heat input. Acetone wash shall be used with EPA Method 5 or 17.
[Rules 62-296.405(1)(e)2. and 62-297.401, F.A.C.]

C.8. Sulfur Dioxide. The test methods for sulfur dioxide emissions shall be EPA Methods 6, 6A, 6B, or 6C, incorporated by reference in Chapter 62-297, F.A.C. Fuel sampling and analysis may be used as an alternate sampling procedure if such a procedure is incorporated into the operation permit for the emissions unit. If the emissions unit obtains an alternate procedure under the provisions of Rule 62-297.620, F.A.C., the procedure shall become a condition of the emissions unit's permit. The Department will retain the authority to require EPA Method 6 or 6C if it has reason to believe that exceedences of the sulfur dioxide emissions limiting standard are occurring. Results of an approved fuel sampling and analysis program shall have the same effect as EPA Method j6 test results for purposes of demonstrating compliance or noncompliance with sulfur dioxide standards. The permittee may use the EPA test methods, referenced above, to

demonstrate compliance; however, as an alternate sampling procedure authorized by permit, the permittee elected to demonstrate compliance by accepting a liquid fuel sulfur limit that will be verified with a fuel analysis provided by the vendor upon each fuel delivery. See specific conditions A.10., B.10. and C.9.
[Rules 62-213.440, 62-296.405(1)(e)3. and 62-297.401, F.A.C.; and, AO65-242831.]

C.9. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 and ASTM D129-91.
[Rules 62-213.440, 62-296.405(1)(e)3., 62-296.405(1)(f)1.b. and 62-297.440, F.A.C.]

Compliance Test Requirements

C.10. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.
[Rule 62-297.310(1), F.A.C.]

C.11. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted, provided however, operations do not exceed 100 percent of the maximum operation rate allowed by the permit. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.
[Rules 62-297.310(2) & (2)b., F.A.C.]

C.12. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.
[Rule 62-297.310(3), F.A.C.]

C.13. Applicable Test Procedures.

a. Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.

2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

b. Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

c. Required Flow Rate Range. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.

d. Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

TABLE 297.310-1
CALIBRATION SCHEDULE

ITEM	MINIMUM CALIBRATION FREQUENCY	REFERENCE INSTRUMENT	TOLERANCE
Liquid in glass thermometer	Annually	ASTM Hg in glass ref. thermometer or equivalent, or thermometric points	+/-2%
Bimetallic thermometer	Quarterly	Calib. liq. in glass thermometer	5 degrees F
Thermocouple	Annually	ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer	5 degrees F
Barometer	Monthly	Hg barometer or NOAA station	+/-1% scale
Pitot Tube	When required or when damaged	By construction or measurements in wind tunnel D greater than 16" and standard pitot tube	See EPA Method 2, Fig. 2-2 & 2-3
Probe Nozzles	Before each test or when nicked, dented, or corroded	Micrometer	+/-0.001" mean of at least three readings Max. deviation between readings .004"
Dry Gas Meter and Orifice Meter	1. Full Scale: When received, When 5% change observed, Annually 2. One Point: Semiannually	Spirometer or calibrated wet test or dry gas test meter	2%
	3. Check after each test series	Comparison check	5%

e. Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube.
[Rule 62-297.310(4), F.A.C.]

C.14. Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to these Conditions.
[Rule 62-297.310(6), F.A.C.]

C.15. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

a. General Compliance Testing.

1. For excess emission limitations for particulate matter specified in Rule 62-210.700, F.A.C., a compliance test shall be conducted annually while the emissions unit is operating under soot blowing conditions in each federal fiscal year during which soot blowing is part of normal emissions unit operation, except that such test shall not be required in any federal fiscal year in which a fossil fuel steam generator does not burn liquid fuel for more than 400 hours other than during startup.

2. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

(a) Did not operate; or

(b) In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

3. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

(a) Visible emissions, if there is an applicable standard;

(b) Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and

(c) Each NESHAP pollutant, if there is an applicable emission standard.

4. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid fuel, other than during startup, for a total of more than 400 hours.

5. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

6. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

7. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62-210.300(4), F.A.C.

b. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

c. Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.
[Rule 62-297.310(7), F.A.C.; and, AO65-242831, Specific Condition #5 (frequency).]

C.16. Visible Emissions Testing - Annual. By these Conditions, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

a. only gaseous fuels; or

b. gaseous fuels in combination with any amount of liquid fuels for less than 400 hours per year; or

c. only liquid fuels for less than 400 hours per year.
[Rule 62-297.310(7)(a)4., F.A.C.]

C.17 Particulate Matter testing - Annual and Permit Renewal. Annual and permit renewal compliance testing for particulate matter emissions is not required for these emissions units while burning:

a. only gaseous fuels; or

b. gaseous fuels in combination with any amount of liquid fuels for less than 400 hours per year; or

c. only liquid fuels for less than 400 hours per year.

[Rules 62-297.310(7)(a)3. & 5., F.A.C.; and, ASP Number 97-B-01.]

Recordkeeping and Reporting Requirements

{Permitting Note: The reports that are required by the following conditions are to be sent to the Department of Environmental Protection's Northwest District Office, 160 Governmental Center, Pensacola, Florida 322501-5794}

C.18. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program 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.]

C.19. Submit to the Department a written report of emissions in excess of emission limiting standards as set forth in Rule 62-296.405(1), F.A.C., for each calendar quarter. The nature and cause of the excess emissions shall be explained. This report does not relieve the owner or operator of the legal liability for violations. All recorded data shall be maintained on file by the Source for a period of five years.

[Rules 62-213.440 and 62-296.405(1)(g), F.A.C.]

C.20. Test Reports.

a. The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

b. The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.

c. The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:

1. The type, location, and designation of the emissions unit tested.

2. The facility at which the emissions unit is located.

3. The owner or operator of the emissions unit.

4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.

5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.

6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.

7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.

8. The date, starting time and duration of each sampling run.

9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.

10. The number of points sampled and configuration and location of the sampling plane.

11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.

12. The type, manufacturer and configuration of the sampling equipment used.

13. Data related to the required calibration of the test equipment.

14. Data on the identification, processing and weights of all filters used.

15. Data on the types and amounts of any chemical solutions used.

16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.

17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.

18. All measured and calculated data required to be determined by each applicable test procedure for each run.

19. The detailed calculations for one run that relate the collected data to the calculated emission rate.

20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.
[Rules 62-213.440 and 62-297.310(8), F.A.C.]

Miscellaneous Conditions

C.21. If particulate matter and visible emissions tests are required, the tests shall be conducted concurrently and shall be performed using the maximum fuel oil/natural gas ratio that can be fired while meeting the standards.
[Rule 62-4.070(3), F.A.C.; and, Applicant request dated April 25, 1997.]

Subsection D. This section addresses the following emissions units.

E.U. ID No.	Brief Description
-008	Combustion Turbine Number 1
-009	Combustion Turbine Number 2

These emissions units are simple cycle combustion turbines manufactured by Westinghouse (model number W171G) and are designated as "Combustion Turbine Number 1" and "Combustion Turbine Number 2". They are each rated at a maximum heat input of 228 million Btu per hour (MMBtu/hour) while being fueled by natural gas and/or No. 2 fuel oil. These combustion turbines are used as peaking units during peak demand times, during emergencies, and during controls testing, to run a nominal 12.3 MW generator (each). Emissions from the combustion turbines are controlled by good combustion practices.

{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. These units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. Combustion Turbine Number 1 began commercial operation in 1963. Combustion Turbine Number 2 began commercial operation in 1963. Each combustion turbine has its own stack. Stack height = 38 feet, exit diameter = 10 feet, exit temperature = 880 °F, actual volumetric flow rate = 395,080 acfm.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

D.1. Permitted Capacity. The maximum operation heat input rates are as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
8	228 (LHV @ 80 degrees Fahrenheit)	Natural Gas
	228 (LHV @ 80 degrees Fahrenheit)	No. 2 Fuel Oil
9	228 (LHV @ 80 degrees Fahrenheit)	Natural Gas
	228 (LHV @ 80 degrees Fahrenheit)	No. 2 Fuel Oil

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.]

D.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.13.**
[Rule 62-297.310(2), F.A.C.]

D.3. Methods of Operation - Fuels. Only natural gas and/or new No. 2 fuel oil shall be fired in these turbines.
[Rule 62-213.410, F.A.C.]

D.4. Hours of Operation. Each combustion turbine may operate 6993 hours per year. The permittee shall maintain an operation log available for Department inspection that documents the total hours of annual operation, including a detailed account of the hours operated on each of the allowable fuels.
[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, AO65-242827, Specific Condition #3.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

D.5. Visible Emissions. Visible emissions from each turbine shall not be equal to or greater than 20 percent opacity.
[Rule 62-296.320(4)(b)1., F.A.C.; and, AO65-242827.]

D.6. Sulfur Dioxide - Sulfur Content. The sulfur content of the No. 2 fuel oil shall not exceed 0.4 percent, by weight. After the initial performance test for Unit 8 is completed, the sulfur content of the No. 2 fuel oil shall not exceed 0.05 percent, by weight. See specific condition **D.12.**
[AO65-242827; and, applicant request on initial Title V application received June 14, 1996.]

Excess Emissions

D.7. Excess emissions from these emissions units resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.]

D.8. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.
[Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

D.9. Sulfur Dioxide. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor upon each fuel delivery. See specific conditions **D.6. and D.12.**
[Rule 62-213.440, F.A.C.]

D.10. Determination of Process Variables.

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

D.11. Visible emissions. The test method for visible emissions shall be EPA Method 9, adopted and incorporated by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C.
[Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.]

D.12. Sulfur Content. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, or both ASTM D4057-88 and ASTM D129-91.
[Rules 62-213.440 and 62-297.440, F.A.C.]

D.13. Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operating at permitted capacity, which 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.
[AO65-242827 Specific Condition No. 2; and, Applicant Request dated June 24, 1997.]

D.14. Applicable Test Procedures.

a. Required Sampling Time.

1. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
[Rule 62-297.310(4)(a)2., F.A.C.]

D.15. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

a. General Compliance Testing.

1. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

(a) Did not operate; or

(b) In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

2. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or, the owner or operator of each emissions unit shall have a formal compliance test conducted for:

(a) Visible emissions, if there is an applicable standard;

3. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.

4. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

5. An annual compliance test conducted for visible emissions shall not be required for units exempted from permitting at Rule 62-210.300(3)(a), F.A.C., or units permitted under the General Permit provisions at Rule 62-210.300(4), F.A.C.

b. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
[Rule 62-297.310(7), F.A.C.; and, AO65-242827, Specific Condition #5 (frequency).]

D.16. Visible Emissions Testing - Annual. By these Conditions, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

a. only gaseous fuels; or

b. gaseous fuels in combination with any amount of liquid fuels for less than 400 hours per year; or

Subsection E. This section addresses the following emissions unit(s).

E.U. ID No.	Brief Description
-011	Auxiliary Boiler

This is a Kewanee model H3S-400-G steam generator rated at a maximum heat input of 16.74 MMBtu/hour while being fueled with natural gas.

{Permitting note(s): This emissions unit is regulated under 40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. However, since it is only permitted to combust natural gas, the standards, the monitoring and the associated reporting requirements contained in Subpart Dc do not apply, with the exception that the reporting requirements pertaining to "start-up", as referenced in 40 CFR 60.7, do apply. This boiler may only operate when Boilers Number 5, Number 6 and Number 7 and Unit 8 are not operating; therefore, there will be no significant increase in emissions for PSD purposes. Stack height = 30 feet, exit diameter = 2.0 feet, exit temperature = 420 °F, actual volumetric flow rate = 4,000 acfm (exit temperature and flow rate estimated by manufacturer service representative). Emissions from this boiler are controlled by good combustion practices.}

The following specific conditions apply to the emissions unit listed above:

Essential Potential to Emit (PTE) Parameters

E.1. Permitted Capacity. The maximum operation heat input rate is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
11	16.74	Natural Gas

[Rules 62-4.160(2), 62-210.200(PTE) and 62-296.406, F.A.C.]

E.2. Emissions Unit Operating Rate Limitation After Testing. See common condition **C.11.** [Rule 62-297.310(2), F.A.C.]

E.3. Methods of Operation - Fuels. Only natural gas shall be fired in this boiler. [Rules 62-4.160(2) and 62-213.440(1), F.A.C.]

E.4. Hours of Operation. This emissions unit may operate 2,000 hours/year as an auxiliary source of steam, but may only operate when the existing steam generating units (Boilers Number 5, Number 6 and Number 7) and Unit 8 are not operating. The Permittee shall maintain an operation log available for Department inspection certifying the total hours of operation and fuel consumption annually.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 1290001-002-AC; and, initial Title V permit application as amended December 24, 1996.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

E.5. Visible Emissions. Visible emissions shall not exceed 20 percent opacity, except for one two-minute period per hour during which opacity shall not exceed 40 percent.
[Rule 62-296.406(1), F.A.C.]

E.6. Particulate Matter. Particulate matter emissions shall be controlled by the firing of natural gas.
[Rule 62-296.406(2), F.A.C.; and, BACT determination dated October 8, 1996.]

E.7. Sulfur Dioxide. Sulfur dioxide emissions shall be controlled by the firing of natural gas.
[Rule 62-296.406(3), F.A.C.; and, BACT determination dated October 8, 1996.]

Excess Emissions

E.8. Excess emissions resulting from startup, shutdown or malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and 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.]

E.9. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.
[Rule 62-210.700(2), F.A.C.]

Monitoring of Operations

E.10. Determination of Process Variables.

a. Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

b. Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.
[Rule 62-297.310(5), F.A.C.]

E.11. This emissions unit is also subject to the conditions contained in **Subsection C. Common Conditions**, as specified below.

Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of these Conditions.}

E.12. Visible Emissions. See common conditions C.5. and C.6.

E.13. Operating Rate During Testing. See common condition C.11.

E.14. Applicable Test Procedures. See common condition C.13.(a)2.

E.15. Frequency of Compliance Tests. See common condition C.15. except (a)5. & 8.

E.16. Visible Emissions - Annual. By these Conditions, annual emissions compliance testing for visible emissions is not required for this emissions unit.
[Rules 62-297.310(7)(a)4., F.A.C.]

Recordkeeping and Reporting Requirements

E.17. The permittee shall record and maintain records of the amount of natural gas combusted during each day the auxiliary boiler is operated.
[40 CFR 60.48c(g)]

E.18. See common conditions **C.18.** and **C.20.a. & b.**

Subsection F. This section addresses the following emission unit(s).

E.U. ID No.	Brief Description
-012	Combustion Turbine Unit 8 (Phase II Acid Rain Unit)

(Suggested Conditions to be provided at a later date.)

Appendix E-1, List of Exempt Emissions Units and/or Activities.

City of Tallahassee, Electric Utilities
Sam O. Purdom Generating Station

PROPOSED Permit No.: 1290001-001-AV
Facility ID No.: 1290001

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Full Exemptions, are exempt from the permitting requirements of Chapters 62-210 and 62-4, F.A.C.; provided, however, that exempt emissions units shall be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining whether a facility containing such emissions units or activities would be subject to any applicable requirements. Emissions units and pollutant-emitting activities exempt from permitting under Rule 62-210.300(3)(a), F.A.C., are also exempt from the permitting requirements of Chapter 62-213, F.A.C., provided such emissions units and activities also meet the exemption criteria of Rule 62-213.430(6)(b), F.A.C. The below listed emissions units and/or activities are hereby exempt pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emissions Units and/or Activities:

Exempt Emissions Related to Combustion Turbine No. 1

1. Oil Vapor Extractor
2. Fuel Oil Piping
3. Lube Oil Tank

Exempt Emissions Related to Combustion Turbine No. 2

4. Oil Vapor Extractor
5. Fuel Oil Piping
6. Lube Oil Tank

Exempt Emissions Related to Steam Generator No. 5

7. Fuel Oil Piping
8. Hydrogen Gas Vents
9. Deareator Tank Vents
10. Oil Vapor Extractors
11. Lube Oil Tank (storage)
12. Lube/Fuel Oil Drip Pans
13. Noncondensable Gas Extractor
14. On-site Generated Non-hazardous Boiler Chemical Cleaning Wastes

Exempt Emissions Related to Steam Generator No. 6

15. Fuel Oil Piping
16. Hydrogen Gas Vents
17. Deareator Tank Vents
18. Oil Vapor Extractors
19. Lube Oil Tank (storage)
20. Lube/Fuel Oil Drip Pans

21. Noncondensable Gas Extractor
22. On-site Generated Non-hazardous Boiler Chemical Cleaning Wastes

Exempt Emissions Related to Steam Generator No. 7

23. Fuel Oil Piping
24. Hydrogen Gas Vents
25. Deareator Tank Vents
26. Oil Vapor Extractors
27. Lube Oil Tank (storage)
28. Lube/Fuel Oil Drip Pans
29. Noncondensable Gas Extractor
30. On-site Generated Non-hazardous Boiler Chemical Cleaning Wastes

Fuel Farm

31. Fuel Oil Tank No. 1
32. Fuel Oil Tank No. 2
33. Fuel Oil Tank No. 3
34. Waste Oil Tank
35. Distillate Oil Tank
36. Gasoline Tank
37. Diesel Oil Tank
38. (New) Diesel Oil Tank Associated With the Hydrant Main

Fuel Dispensing Operations

39. Truck Loading/Unloading (for items 29-33)
40. Truck Loading/Unloading for Distillate Oil Tank
41. Truck Loading/Unloading for Gasoline Tank
42. Fuel Dispensing Operations for Diesel Oil Tank
43. Barge Unloading Station
44. Truck Loading/Unloading Rack 1
45. Truck Loading/Unloading Rack 2

Fugitive VOC Emissions

46. (1-15) Parts Washers - Nonhalogenated Solvents

Space Heaters

47. (1-7) Space Heaters

Fugitive PM_{10} Emissions

48. Paved Roads
49. Unpaved Roads
50. Heavy Construction Activities
51. Aggregate Handling & Storage

Appendix E-1, Continued.

Laboratory

52. Laboratory Equipment
53. Chemical Usage
54. Vacuum Pumps
55. Laboratory Fume Hoods
56. Central Vacuum System

Maintenance Activities

57. Welding - Exempt per Rule 62-210.300(3)(a)16., F.A.C.

Plant Operations

58. Lube Oil Storage Tanks
59. Propane Storage Tanks

Appendix U-1, List of Unregulated Emissions Units and/or Activities.

City of Tallahassee, Electric Utilities
Sam O. Purdom Generating Station

PROPOSED Permit No.: 1290001-001-AV
Facility ID No.: 1290001

Unregulated Emissions Units and/or Activities. An emissions unit which emits no "emissions-limited pollutant" and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

E.U. ID No.	Brief Description of Emissions Units and/or Activity
-010	Fugitive VOC Sources - Painting Operations
-xxx	General purpose engines
-yyy	Emergency generators

-010 Fugitive VOC Emissions. Fugitive VOC emissions are generated from the painting operations associated with normal plant maintenance. SCC: 4-90-999-98, Miscellaneous Volatile Organic Compound Evaporation.

-xxx General purpose internal combustion engines.
Located for use at this source are(2) Welding Generators.

-yyy Emergency generators.
Located for use at this source are (3) Emergency Generators.

Referenced Attachments (see Title V Permit)

Appendix A-1, Abbreviations, Definitions, Citations, and Identification Numbers

Appendix SS-1, Stack Sampling Facilities (version dated 3/25/96)

Appendix TV-1, Title V Conditions (version dated 2/5/97)

ASP Number 97-B-01

Table 1-1, Summary of Air Pollutant Standards and Terms

Table 2-1, Summary of Compliance Requirements

XIII. Stormwater Discharge

A. The existing Purdom Generating Station surface water management system is permitted to discharge storm water under the terms and conditions imposed by EPA's storm water general permit issued for use in the state of Florida. The facility's permit number is FLR00A317. The City of Tallahassee is required to continue to update the Purdom Station's Storm Water Pollution Prevention Plan (SWPPP) annually, as required by the general permit; and to implement the annual revisions to the SWPPP.

B. New construction on the Purdom site must meet the requirements of Chapter 62-25 of the Florida Administrative Code, as well as the design requirements presented in the Site Certification Application (SCA). The new stormwater facilities associated with Purdom Unit 8 will not become operational until an engineer practicing in the State of Florida in compliance with Section 471.003(2)(d) Florida Statutes, and with the appropriate experience in surface water design, certifies that these facilities have been constructed in accordance with the design as approved by the Florida Department of Environmental Protection (FDEP).

C. This certification is predicated on the City of Tallahassee's submitted information to FDEP which reasonably demonstrates that adverse off-site water resource related impacts will not be caused by the authorized activities.

D. FDEP representatives shall be allowed reasonable escorted access to the power plant site to inspect and observe any activities associated with the Purdom Unit 8 Project construction and/or the operation and/or maintenance of the surface water management system in order to determine compliance with the conditions of this certification. The City of Tallahassee shall not refuse immediate entry or access, upon reasonable notice, to any FDEP representative who requests entry for the above noted inspection and presents appropriate credentials.

E. The City of Tallahassee shall hold and save FDEP harmless from any and all damages, claims, or liabilities which may arise by reason of the construction, operation, maintenance and/or use of any facility authorized by this certification, to the extent allowed under Florida law.

XIV. Domestic Wastewater

XV. Drinking Water Facilities

A. Use of Existing Facilities

B. Prior Approval

C. Construction

D. Operation

XVI. NPDES

This Condition of Certification is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The City of Tallahassee is hereby authorized to operate the facilities shown in the Purdom Unit 8 Site

Certification Application and other documents on file with the Department and made a part hereof and specifically described as follows:

OPERATION: Of an industrial wastewater treatment and disposal system to serve the referenced facility which includes a steam electric power generation plant and combustion turbine units. The facility presently includes three fossil-fueled steam electric units, Units 5 and 6 each rated at 22 MW (nominal) and Unit 7 rated at 44 MW (nominal), and two combustion turbines, Units GT-1 and GT-2, each rated at 12.3 MW (nominal). After permanent shutdown of Units 5 and 6, Unit 8, a 250 MW (nominal) combined cycle unit will become operational. The existing facility discharge consists of once-through non-contact cooling water, low volume wastes, and chemical and non-chemical metal cleaning wastes. Upon Commercial Operation of Unit 8, the discharge will only consist of once-through non-contact cooling water from Unit 7 and GT-1 and GT-2. For the purpose of Condition XVI, "Commercial Operation" means that Unit 8 achieves the following:

(1) Successful completion of performance tests for electric power output and heat rate,

(2) The Unit produces at least ninety-five percent (95%) of the Guaranteed Net Power Output,

(3) The Unit operates at no more than one hundred five percent (105%) of the Guaranteed Heat Rate,

(4) The Unit meets all applicable air emission conditions contained in the Permits while firing the Guaranteed Fuel, and

(5) The zero discharge wastewater treatment system is operating in a reliable manner.

TREATMENT: Existing treatment includes lime treatment consisting of mixing, flocculation, and sedimentation of low volume wastewaters and metal cleaning wastewaters, air flotation and gravity separation for oily wastewaters, and pH adjustment for low volume wastewaters and metal cleaning wastewaters. Non-contact cooling waters require only dechlorination, if chlorination is practiced. Upon Commercial Operation of Unit 8, only non-contact cooling water from Unit 7 will be discharged; the existing treatment system will be abandoned.

DISPOSAL: Effluent is presently discharged at outfall D001 (formerly outfall serial number OSN 001, D002 (formerly outfall serial number OSN 002), D003 (formerly outfall serial number OSN 005), and D004 (formerly outfall serial number OSN 006) to the St. Marks River, a Class III water. Upon Commercial Operation of Unit 8, the only remaining discharge will be to Outfall D002.

IN ACCORDANCE WITH: The limitations, monitoring requirements, and other conditions set forth in Parts I through V below.

Part I. Effluent Limitations and Monitoring Requirements

A. Surface Water Discharges

1. During the period beginning on the effective date of this certification, and lasting until Unit 8 achieves Commercial Operation, the City of Tallahassee is authorized to discharge from

outfall serial number 001: once-through cooling water and auxiliary equipment cooling water from Unit 5 to the St. Marks River.

a. Such discharges shall be limited and monitored as specified below:

	Discharge Limitations			Monitoring Requirements	
Parameter	Daily Avg.	Daily Max.	Instantaneous Max	Measurement Frequency	Sample Type
Flow, MGD	Report	Report	N/A	Daily	Hourly Log
Discharge Temperature, °F	90.0	95.0	N/A	Continuous [1]	Recorder
Total Residual Chlorine (TRC), mg/l	N/A	N/A	0.01	1/Discharge	Multiple Chlorine Grabs [2]
Total Time of Chlorine Addition	N/A	120	N/A	Daily	Log

b. Limitations and monitoring requirements for TRC are not applicable for any period in which chlorine is not added to Unit 5.

c. Auxiliary equipment cooling water from Unit 5 may be discharged without limitations or monitoring requirements.

d. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: flow at the plant intake; temperature and TRC at the throat of the discharge structure from Unit 5; chlorine addition at the point of addition.

[1] Readings shall be taken 2 per each operating shift from continuous temperature recorders and averaged for daily average.

[2] Multiple grabs shall consist of grab samples collected at approximately the beginning of the period of TRC discharge and once per 15 minutes thereafter until the end of the period of TRC discharge.

2. During the period beginning on the effective date of this certification, and lasting until Unit 8 achieves Commercial Operation, the City of Tallahassee is authorized to discharge from outfall serial number 002: once-through cooling water and auxiliary equipment cooling water from Units 6 and 7, and cooling water from Combustion Turbines 1 and 2 to the St. Marks River.

a. Such discharges shall be limited and monitored as specified below:

	Discharge Limitations			Monitoring Requirements	
Parameter	Daily Avg.	Daily Max.	Instantaneous Max	Measurement Frequency	Sample Type
Flow, MGD	Report	Report	N/A	Daily	Hourly Log
Discharge Temperature, °F	90.0	95.0	N/A	Continuous [1]	Recorder
Total Residual Chlorine (TRC), mg/l	N/A	N/A	0.01	1/Discharge	Multiple Chlorine Grabs [2]
Total Time of Chlorine Addition	N/A	120	N/A	Daily	Log

b. Limitations and monitoring requirements for TRC are not applicable for any period in which chlorine is not added to either Unit 6 or 7.

c. Auxiliary equipment cooling water from Units 6 and 7 may be discharged without limitations or monitoring requirements.

d. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: flow at the plant intake; temperature and TRC at the center of the discharge canal for Units 6 and 7, opposite the gas turbine intake structure; chlorine addition at the point of addition.

[1] Readings shall be taken 2 per each operating shift from continuous temperature recorders and averaged for daily average.

[2] Multiple grabs shall consist of grab samples collected at approximately the beginning of the period of TRC discharge and once per 15 minutes thereafter until the end of the period of TRC discharge.

3. During the period beginning on the effective date of this certification, and lasting until Unit 8 achieves Commercial Operation, the City of Tallahassee is authorized to discharge from outfall serial number 005: chemical and non-chemical metal cleaning wastes to Pond No. 1 to the St. Marks River.

a. Such discharges shall be limited and monitored as specified below:

	Discharge Limitations		Monitoring Requirements	
Parameter	Daily Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD	Report	Report	Continuous [1]	Flow Indicator
Total Suspended Solids, mg/l	30.0	100.0	1/Discharge	Grab
Oil & Grease mg/l	N/A	5.0	1/Discharge	Grab
Copper (Total), mg/l	N/A	0.03	1/Discharge	Grab
Iron (Total) mg/l	1.0	1.0	1/Discharge	Grab

b. The pH shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored 1/month by a grab sample.

c. There shall be no discharge of floating solids or visible foam in other than trace amounts.

d. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location: in the discharge line from Ponds 1 and 2 prior to actual discharge to the receiving waters.

[1] Flow shall be measured continuously throughout the period of discharge.

4. During the period beginning on the effective date of this certification, and lasting until Unit 8 achieves Commercial Operation, the City of Tallahassee is authorized to discharge from outfall serial number 006: low volume wastes including boiler blowdown, demineralizer regeneration wastewater, and laboratory sampling wastewater to Pond No. 2 to the St. Marks River.

a Such discharges shall be limited and monitored as specified below:

Parameter	Discharge Limitations		Monitoring Requirements	
	Daily Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD	Report	Report	Daily	Flow Indicator
Total Suspended Solids, mg/l	30.0	100.0	1/Discharge	Grab
Oil & Grease mg/l	N/A	5.0	1/Discharge	Grab

b. The pH shall not be less than 6.0 standard units nor greater than 8.5 standard units and shall be monitored 1/month by a grab sample.

c. The City of Tallahassee is authorized to discharge FDEP-approved boiler chemicals in boiler blowdown, boiler lay-up water or other similar "cold discharges" without limitation or monitoring requirements.

d. There shall be no discharge of floating solids or visible foam in other than trace amounts.

e. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: In the discharge line from ponds 1 and 2 prior to actual discharge to the receiving waters.

5. During the period beginning when Unit 8 achieves Commercial Operation, and continuing indefinitely thereafter, the City of Tallahassee is authorized to discharge from outfall serial number 002: once-through cooling water and auxiliary equipment cooling water from Unit 7, and cooling water from Combustion Turbines 1 and 2 to the St. Marks River.

a. Such discharges shall be limited and monitored as specified below:

Parameter	Discharge Limitations			Monitoring Requirements	
	Daily Avg.	Daily Max.	Instantaneous Max	Measurement Frequency	Sample Type
Flow, MGD	Report	Report	N/A	Daily	Hourly Log
Discharge Temperature, °F	90.0	95.0	N/A	Continuous [1]	Recorder
Total Residual Chlorine (TRC), mg/l	N/A	N/A	0.01	1/Discharge	Multiple Chlorine Grabs [2]
Total Time of Chlorine Addition	N/A	120	N/A	Daily	Log

b. Limitations and monitoring requirements for TRC are not applicable for any period in which chlorine is not added to Unit 7.

c. Auxiliary equipment cooling water from Unit 7 may be discharged without limitations or monitoring requirements.

d. Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: Flow at the plant intake; temperature and TRC at the center of the discharge canal for Unit 7, opposite the gas turbine intake structure; chlorine addition at the point of addition.

[1] Readings shall be taken 2 per each operating shift from continuous temperature recorders and averaged for daily average.

[2] Multiple grabs shall consist of grab samples collected at approximately the beginning of the period of TRC discharge and once per 15 minutes thereafter until the end of the period of TRC discharge.

B. Other Limitations and Monitoring Requirements

1. The approved analytical methods and corresponding Department established MDL (method detection limits) and PQL (practical quantification limit) are listed for the following parameters:

Parameter	EPA Method	MDL (µg/l)	PDL (µg/l)
Total Suspended Solids	160.2	4000.0	4000.0
Oil & Grease	413.1	5000.0	5000.0
Total Recoverable Copper	220.2	1.0	5.0
Total Recoverable Iron	236.2/200.7/236.1	2.0/10.0/30.0	10.0/50.0/100.0
Temperature	170.1	0.10 C	0.10 C
Total Residual Chlorine	330.1	10.0	10.0
pH	150.1	0.01 s.u.	0.01 s.u.

The MDLs and PQLs listed above shall constitute the minimum reporting levels for the life of the certification. The Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those listed above. Unless otherwise specified, sample results shall be reported as follows:

- Results greater than or equal to the PQL shall be reported as the measured quantity.
- Results less than the PQL and greater than or equal to the MDL shall be reported as the PQL followed by the lab code "m", and shall be deemed equal to the MDL when necessary to calculate an average for that parameter.
- Results less than the MDL shall be reported as the MDL followed by the lab code "u". A value of one half the MDL or half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limit or monitoring requirement. [62-4.246, 6-13-96]

2. Monitoring results obtained for each calendar month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR), Form 62-620.910(10), postmarked no later than the 28th day of the month following the completed calendar month. For example, data for January shall be submitted by February 28. Signed copies of the DMR shall be submitted to the address specified below:

Florida Department of Environmental Protection
Wastewater Facilities Regulation Section, Mail Station 3550
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

If no discharge occurs during the reporting period, sampling requirements of this certification do not apply. The statement "No Discharge" shall be written on the DMR form. If, during the term period of this certification, the facility ceases to discharge, the Department shall be notified immediately upon cessation of discharge. Such notification shall be in writing. Additionally, the City of Tallahassee shall notify the Department within 30 days, in writing, of the permanent shutdown of Units 5 and 6, and of the commencement of Commercial Operation of Unit 8.

3. Unless specified otherwise in this certification, all other reports and notifications required by these Conditions, including twenty-four hour notifications, shall be submitted to or reported to, as appropriate, the Department's Northwest District Office at the address specified below:

Florida Department of Environmental Protection
Industrial Wastewater Section
160 Government Center
Suite 308
Pensacola, Florida 32501-5794
Phone Number (850)-444-8300

4. The City of Tallahassee shall report all visible discharges of floating materials, such as ash or an oil sheen, when submitting DMRs.

5. There shall be no discharge of polychlorinated biphenyl compounds (PCBs) such as those commonly used for transformer fluid.

6. The City of Tallahassee shall provide safe access points for obtaining representative samples which are required by this certification.

7. The City of Tallahassee shall ensure that all laboratory analytical data submitted to the Department is from a laboratory which has a currently valid and Department-approved Comprehensive Quality Assurance Plan (CompQAP) [or a CompQAP pending approval] for all parameters being reported as required by 62-160, Florida Administrative Code.

8. Discharge of hydrazine in boiler blowdown is authorized without limitation or monitoring requirements.

9. The City of Tallahassee is authorized to use St. Marks River water for fire protection in case of emergency and to perform normal and reasonable testing of the fire protection system. The provisions of Part I, Section A.1 and A.2 of this condition of certification do not apply under these emergency or testing conditions.

C. Reopener Clause

1. A. This certification shall be modified to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(23)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any condition in the permit/or;

2. Controls any pollutant not addressed in the certification. The certification, as modified under this paragraph shall contain any other requirements of the Act then applicable.

B. The certification may be reopened to adjust effluent limitations or monitoring requirements should future wasteload allocation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement .

D. Stormwater from Diked Petroleum Storage or Handling Area

The City of Tallahassee is authorized to discharge stormwater from diked petroleum storage or handling areas, provided the following conditions are met:

1. The facility shall have a valid SPCC Plan pursuant to 40 CFR 112.

2. In draining the diked area, a portable oil skimmer or similar device or absorbent material shall be used to remove oil and grease (as indicated by the presence of a sheen) immediately prior to draining.

3. Monitoring records shall be maintained in the form of a log and shall contain the following information, as a minimum:

a. Date and time of discharge,

b. Estimated volume of discharge,

c. Initials of person making visual inspection and authorizing discharge, and

d. Observed conditions of storm water discharged.

4. There shall be no discharge of floating solids or visible foam in other than trace amounts and no discharge of a visible oil sheen at any time.

Part II. Operation and Maintenance Requirements

A. Operation of Treatment and Disposal Facilities

1. The City of Tallahassee shall ensure that the operation of this facility is as described in the application and supporting documents

2. The operation of the pollution control facilities described in this certification shall be under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control appropriate for those facilities.

B. Record-Keeping Requirements

The City of Tallahassee shall maintain the following records on the site of the permitted facility and make them available for inspection:

1. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;

2. Copies of all reports, other than those required in item 1. above, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;

3. Records of all data, including reports and documents used to complete the application for this certification at least three years from the date the application was filed, unless otherwise specified by Department rule;

4. A Copy of the Site Certification;

5. A copy of any required record drawings;

6. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule.

Part III. Compliance Schedule

The City of Tallahassee shall achieve compliance on start of discharge.

Part IV. Other Specific Conditions

A. Specific Conditions Applicable to All Permits

1. Drawings, plans, documents or specifications submitted by the City of Tallahassee, not attached hereto, but retained on file with the Department, are made a part hereof.

2. If significant historical or archaeological artifacts are discovered at any time within the project site, the City of Tallahassee shall immediately notify the Department at the address shown in I B 3 above and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida, 32301.

3. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this certification shall be signed and sealed by the professional(s) who prepared them.

4. This certification satisfies industrial wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by federal agencies.

B. Duty to Reapply

This condition is not applicable under Site Certification.

C. Specific Conditions Related to Best Management Practices

The City of Tallahassee shall comply with the Best Management Practices portion of the Purdom Station Storm Water Pollution Prevention Plan (SWPPP).

D. Specific Conditions Relating to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have reason to believe:
[62-620.624(1)]

(a) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the certification, if that discharge will exceed the highest of the following levels:

(1) One hundred micrograms per liter

(2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony, or

(3) Five times the maximum concentration value reported for that pollutant In the permit application.

(b) That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following levels:

(1) Five hundred micrograms per liter;

(2) One milligram per liter for antimony; or

(3) Ten times the maximum concentration value reported for that pollutant in the permit application.

Part V. General Conditions

Within this part, the term "permit" refers to this Certification; the term "permittee" refers to the City of Tallahassee; the term "Department" refers to the Florida Department of Environmental Protection.

(1) The terms, conditions, requirements, limitations and restrictions set forth in these Conditions are binding and enforceable pursuant to chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision.

(2) These Conditions are 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 these Conditions constitutes grounds for revocation and enforcement action by the Department.

(3) As provided in subsection 403.087(6), F.S., the issuance of these Conditions 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 authorize any infringement of federal, state, or local laws or regulations. These Conditions is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in these Conditions.

(4) These Conditions 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) These Conditions does not relieve the permittee from liability and penalties 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; 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. The permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of these Conditions which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of these Conditions.

(6) If the permittee wishes to continue an activity regulated by these Conditions after its expiration date, the permittee shall apply for and obtain a new permit.

(7) The permittee shall at all times properly operate and maintain the facility

and systems of treatment and control, and related appurtenances, that are installed and used by the permittee to achieve compliance with the conditions of these Conditions. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit.

(8) These Conditions may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

(9) The permittee, by accepting these Conditions, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to

(a) Enter upon the permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of these Conditions;

(b) Have access to and copy any records that shall be kept under the conditions of these Conditions;

(c) Inspect the facilities, equipment, practices, or operations regulated or required under these Conditions; and

(d) Sample or monitor any substances or parameters at any location necessary to assure compliance with these Conditions or Department rules.

(10) In accepting these Conditions, 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 as such use is proscribed by section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to

the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules.

(11) When requested by the Department, the permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating these Conditions, or to determine compliance with the permit. The permittee shall also provide to the Department upon request copies of records required by these Conditions to be kept. If the permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department.

(12) Unless specifically stated otherwise in Department rules, the permittee, in accepting these Conditions, 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. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard.

(13) The permittee, in accepting these Conditions, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-4.052, F.A.C.

(14) These Conditions is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department.

(15) The permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment.

(16) The permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300 and the Department of Environmental Protection Guide to Wastewater Permitting at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.325(2) for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C.

(17) The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of these Conditions. The notice shall include the following information:

(a) A description of the anticipated noncompliance;

(b) The period of the anticipated noncompliance, including dates and times; and

(c) Steps being taken to prevent future occurrence of the noncompliance.

(18) Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.

(a) Monitoring results shall be reported at the intervals specified elsewhere in these Conditions and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).

(b) If the permittee monitors any contaminant more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(c) Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in these Conditions.

(d) Any laboratory test required by these Conditions for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under chapter 10D-41, F.A.C., to perform the test. In domestic wastewater facilities, on-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under chapter 61E12-41, F.A.C.

(e) Under chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DEP-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. This CompQAP shall be approved for collection of samples from the required matrices and for the required tests.

(19) Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in these Conditions shall be submitted no later than 14 days following each schedule date.

(20) The permittee shall report to the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

(a) The following shall be included as information which must be reported within 24 hours under this condition:

1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,

2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,

3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and

4. Any unauthorized discharge to surface or ground waters.

(b) If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department shall waive the written report.

(21) The permittee shall report all instances of noncompliance not reported under conditions (18) or (19) of these Conditions at the time monitoring reports are submitted. This report shall contain the same information required by condition (20) of these Conditions.

(22) Bypass Provisions.

(a) Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless the permittee affirmatively demonstrates that:

1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and

2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3. The permittee submitted notices as required under condition (22)(b) of these Conditions.

(b) If the permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in condition (20) of these Conditions. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.

(c) The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in condition (22)(a)1. through 3. of these Conditions.

(d) A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of condition (22)(a) through (c) of these Conditions.

(23) Upset Provisions.

(a) A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the permittee can identify the cause(s) of the upset;

2. The permitted facility was at the time being properly operated;

3. The permittee submitted notice of the upset as required in condition (20) of these Conditions; and

4. The permittee complied with any remedial measures required under condition (5) of these Conditions.

(b) In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

(c) Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

XVII. Groundwater (if not applicable)

XVIII. Toxic, Deleterious or Hazardous Materials

XIX. By-product and Solid Waste Storage and Disposal

A. Solid Waste General

B. By-product and Solid Waste Site Specific Standards

XX. Federal Annual Operating Permits and Fees (if necessary)

XXI. Construction of Linear Facilities

XXII. Northwest Florida Water Management District

A. Applicable Terms and Standard Conditions

1. This certification is issued based on information provided by the City of Tallahassee demonstrating that the use of water is reasonable and beneficial as defined by Section 373.019(4), Florida Statutes (F.S.), consistent with the public interest, and will not interfere with any legal use of water existing on the effective date of the Site Certification Application (SCA). The Northwest Florida Water Management District (the District) may initiate action for suspension or revocation of the certification, as provided in Section 403.512 Florida Statutes for any material false statement in the Site Certification Application (SCA), or for failure to comply with these Conditions of Certification.

2. The City of Tallahassee has obtained, or will obtain all other necessary permits to construct, operate, and certify withdrawal facilities and the operation of the water system.

3. The City of Tallahassee will continue ownership, lease, or other present control of property rights in underlying, overlying, or adjacent lands. This portion of the certification may be assigned to a subsequent owner as provided by Chapter 40A-2.351, Florida Administrative Code (F.A.C.), and the acceptance by the transferee of all terms and conditions of this portion of the certification.

4. "Commercial Operation" for the purpose of Condition XXI, means that Unit 8 achieves the following:

(a) Successful completion of performance tests for electric power output and heat rate,

(b) The Unit produces at least ninety-five percent (95%) of the Guaranteed Net Power Output,

(c) The Unit operates at no more than one hundred five percent (105%) of the Guaranteed Heat Rate,

(d) The Unit meets all applicable air emission conditions contained in the Permits while firing the Guaranteed Fuel, and

(e) The zero discharge wastewater treatment system is operating in a reliable manner.

5. Beginning with the effective date of this permit and continuing until Units 5 and 6 are permanently shut down, withdrawals of individual facilities and combined withdrawals will not exceed the maximum flows as shown below:

		Average Daily Flow (gallons)	Maximum Daily Flow (gallons)	Average Monthly Flow (gallons)	Maximum Monthly Flow (gallons)
Withdrawal Point					
#	Description				
SOP 6	Well	40,650	260,000	1,219,500	7,800,000
SOP 7	Well	40,650	260,000	1,219,500	7,800,000
SOP 8	Well	40,650	260,000	1,219,500	7,800,000
SOP 9	Well	40,650	260,000	1,219,500	7,800,000
	Total All Wells	162,600	432,000	4,878,000	12,960,000
SW 4	Unit 4 C.W.	1,400,000	7,200,000	42,000,000	216,000,000
SW 5	Unit 5 C.W.	19,879,315	34,560,000	596,379,452	1,036,800,000
SW 6	Unit 6 C.W.	17,224,932	34,560,000	516,747,945	1,036,800,000
SW 7	Unit 7 C.W.	58,426,751	60,624,000	1,752,802,521	1,818,720,000
SW GT	Gas Turbines	300,000	2,937,600	9,000,000	88,128,000
SW 8	Unit 8 C.W.	0	0	0	0
Total All Surface Water		97,230,997	139,881,600	2,916,929,918	4,196,448,000
Total Withdrawal of Water		97,393,597	140,313,600	2,921,807,918	4,209,408,000

Note: C.W. is Circulating (Condenser Cooling) Water recirculated to the river, except for Unit 8. The average flows above are based on information provided by the City of Tallahassee as based on the best information available at the time, but do not constitute limits.

6. Beginning when Purdom Units 5 and 6 are permanently shut down, and continuing until Purdom Unit 8 achieves Commercial Operation, withdrawals of individual facilities and combined withdrawals will not exceed the maximum flows as shown below:

		Average Daily Flow (gallons)	Maximum Daily Flow (gallons)	Average Monthly Flow (gallons)	Maximum Monthly Flow (gallons)
Withdrawal Point					
#	Description				
SOP 6	Well	40,650	260,000	1,219,500	7,800,000
SOP 7	Well	40,650	260,000	1,219,500	7,800,000
SOP 8	Well	40,650	260,000	1,219,500	7,800,000
SOP 9	Well	40,650	260,000	1,219,500	7,800,000
Total All Wells		162,600	432,000	4,878,000	12,960,000
SW 4	Unit 4 C.W.	1,400,000	7,200,000	42,000,000	216,000,000
SW 5	Unit 5 C.W.	0	0	0	0
SW 6	Unit 6 C.W.	0	0	0	0
SW 7	Unit 7 C.W.	58,426,751	60,624,000	1,752,802,521	1,818,720,000
SW GT	Gas Turbines	300,000	2,937,600	9,000,000	88,128,000
SW 8	Unit 8 C.W.	959,040	1,347,840	28,771,200	36,806,400
Total All Surface Water		61,085,791	72,109,440	1,832,573,721	2,159,654,400
Total Withdrawal of Water		61,248,391	72,541,440	1,837,451,721	2,172,614,400

Note: C.W. is Circulating (Condenser Cooling) Water recirculated to the river, except for Unit 8. The average flows above are based on information provided by the City of Tallahassee as based on the best information available at the time, but do not constitute limits.

7. Beginning with the achievement of Commercial Operation of Unit 8, withdrawals of individual facilities and combined withdrawals will not exceed the maximum flows as shown below:

		Average Daily Flow (gallons)	Maximum Daily Flow (gallons)	Average Monthly Flow (gallons)	Maximum Monthly Flow (gallons)
Withdrawal Point					
#	Description				
SOP 6	Well	0	0	0	0
SOP 7	Well	0	0	0	0
SOP 8	Well	0	0	0	0
SOP 9	Well	0	0	0	0
Total All Wells		0	0	0	0
SW 4	Unit 4 C.W.	0	0	0	0
SW 5	Unit 5 C.W.	0	0	0	0
SW 6	Unit 6 C.W.	0	0	0	0
SW 7	Unit 7 C.W.	58,426,751	60,624,000	1,752,802,521	1,818,720,000
SW GT	Gas Turbines	300,000	2,937,600	9,000,000	88,128,000
SW 8	Unit 8 C.W.	959,040	1,347,840	28,771,200	36,806,400
Total all Surface Water		59,685,791	64,909,440	1,790,573,721	1,943,654,400
Total Withdrawal of Water		59,685,791	64,909,440	1,790,573,721	1,943,654,400

Note: C.W. is Circulating (Condenser Cooling) Water Recirculated to the river, except for Unit 8. The average flows above are based on information provided by the City of Tallahassee as based on the best information available at the time, but do not constitute limits.

8. The use of the permitted water withdrawal is restricted to the use described in the Site Certification Application. Any change in the use of said water shall require a modification of the Site Certification.

9. The District's staff, upon proper identification, will have permission to enter, inspect and observe permitted and related facilities in order to determine compliance with the approved plans, specifications, and conditions of these Conditions.

10. The District's staff, upon providing prior notice and proper identification, may request permission to collect water samples for analysis, measure static and/or pumping water levels and collect any other information deemed necessary to protect the water resources of the area.

11. The District reserves the right, at a future date, to require the City of Tallahassee to submit pumpage records for any or all withdrawal point(s) covered by this Certification.

12. The City of Tallahassee shall mitigate any significant adverse impact caused by withdrawals permitted herein on the resource and legal water withdrawals and uses, and on adjacent land use, which existed at the time of filing of the SCA.

13. The City of Tallahassee shall not cause significant saline water intrusion or increased chloride levels. The District reserves the right to curtail permitted withdrawal rates if withdrawals cause significant saline water intrusion or increased chloride levels.

14. The District, pursuant to Section 373.042, F.S., at a future date, may establish minimum and/or management water levels in the aquifer, aquifers, or surface water hydrologically associated with the permitted withdrawals; these water levels may require the City of Tallahassee to limit withdrawal from these water sources at times when water levels are below established levels.

15. Nothing in this Site Certification shall be construed to limit the authority of the Northwest Florida Water Management District to declare water shortages and issue orders pursuant to Section 373.175, F.S., or to formulate and implement a plan during periods of water shortage pursuant to Section 373.222246, F.S., or to declare Water Resource Caution Areas pursuant to Chapters 40A-2.801, and 62-40.41 F.A.C.

(a) In the event of a declared water shortage, water withdrawal reductions shall be made as ordered by the District.

(b) In the event of a declared water shortage or an area as a Water Resource Caution Area, the District may initiate any required action to alter, modify or inactivate all or parts of this section of the Conditions of Certification.

16. The City of Tallahassee shall properly plug and abandon any well determined unsuitable for its intended use, not properly operated and maintained, or removed from service. The well(s) shall be plugged and abandoned to District Standards in accordance with Section 40A-3.531, F.A.C.

B. Specific Conditions

1. The City of Tallahassee shall not exceed a withdrawal rate of 300 gallons per minute from the Floridan Aquifer System and shall continue to rotate the pumping of the wells in a manner designed to minimize the impact to the resource and any nearby permitted users.

2 The City of Tallahassee shall maintain, in working order, in-line totaling flow meters on all wells.

3. The City of Tallahassee shall, by January 31 of each year, submit for ground water withdrawals, a completed Water Use Summary Reporting Form (NWFWMD A2-I) for each month of the previous year. Water use amounts for each well may be calculated using flow meter readings at the plant divided by the pump rate of each well. The calculations must be provided with each submittal. The City of Tallahassee shall also submit a statement confirming that all water withdrawn from the St. Marks River for once-through cooling (Units 5, 6, 7 C.W. and Gas Turbines) has been returned. The first report is due by January 31, 1998.

4. The City of Tallahassee shall reference the power plant's wells by their Florida Unique Identification Number when corresponding with the District (pumping reports, etc.).

5. The City of Tallahassee shall continue to return all of the surface water withdrawn from the St. Marks River for once-through cooling (Units 5, 6, 7 C.W. and Gas Turbines) back to the St. Marks River.

6. The City of Tallahassee shall provide for the efficient and non-wasteful use of water, and shall implement water conservation measures designed to enhance water use efficiency and reduce water demand and losses.

Florida Department of
Environmental Protection

Memorandum

TO: Power Plant Siting Review Committee

FROM: Buck Oven, Siting Coordination Office BO

DATE: July 16, 1997

SUBJECT: Purdom Unit 8, PA 96-35, Module 8046
Amendment to Application

Attached please find a copy of the City of Tallahassee's responses to comments on their application for certification of a new generating system at the Purdom Power Plant. Please insert the amended pages review and comment on them return your comments as soon as practical but no later than August 15, 1997.

Attach:

CITY OF TALLAHASSEE

CITY HALL
300 S. ADAMS ST.
TALLAHASSEE, FL
32301-1731
904/891-0010
TDD 1-800/955-8771

July 16, 1997

Hand Delivered

Hamilton S. Oven
Department of Environmental Protection
2720 Blair Stone Road
Suite H
Tallahassee, FL 32399

Subject: City of Tallahassee - Purdom Unit 8 Project
Edited Pages of Site Certification Application

Dear Mr. Oven:

Enclosed please find 18 sets of edited pages to the subject Site Certification. As we have discussed, these pages contain edits of the text, figures, and tables which clarify certain issues in response to agency questions previously asked and answered, or simply correct typographical errors. These editorial changes are provided for the convenience of all reviewers and do not represent a revision to the project.

Revised and additional text is italicized for ease of identification and a line marking the location of a change is included on the edge of each page. Instructions for replacing and adding pages are also included.

Please let me know if you have any questions on this material. You can reach me at (850) 891-8850.

Thank you for helping the City of Tallahassee develop this method for keeping all parties up to date.

Sincerely,

Jennette Curtis
Environmental Administrator

Enclosures

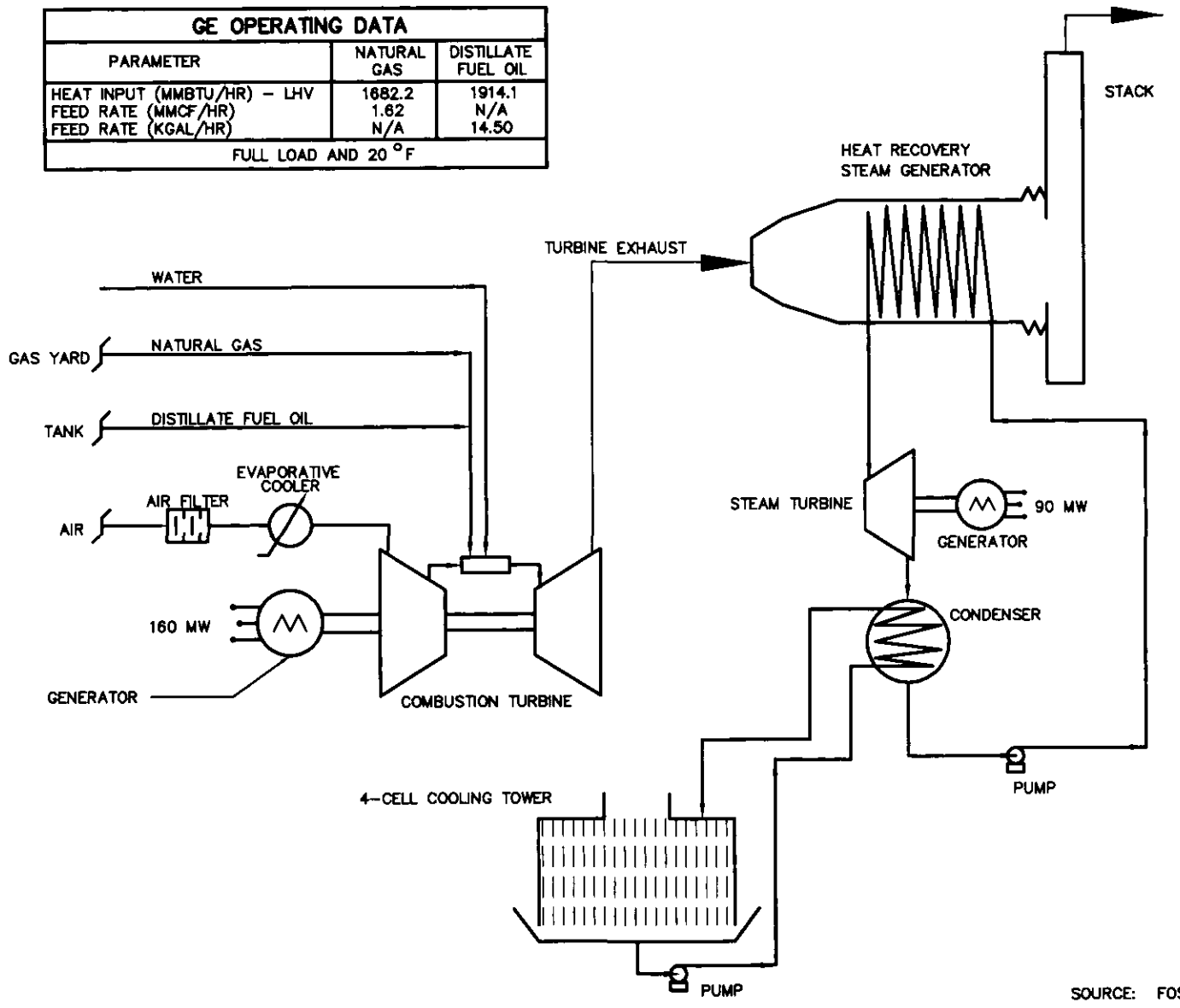
JC/ns

cc: Rob McGarrah (COT)
Gary Sams (HGSS)
Doug Fulle (FWENC)
c:\winword\PP8team\Ovenltr2.doc

PLOT DATE JUL 22 C:\DARREL\COT\CAD\PUNIT8.DWG8.DWG

GE OPERATING DATA		
PARAMETER	NATURAL GAS	DISTILLATE FUEL OIL
HEAT INPUT (MMBTU/HR) – LHV	1682.2	1914.1
FEED RATE (MMCF/HR)	1.62	N/A
FEED RATE (KGAL/HR)	N/A	14.50
FULL LOAD AND 20 °F		

EU13 – EXHAUST PARAMETERS
EXHAUST TEMP. – 171 TO 203 °F
STACK HEIGHT – 200'
SO2 EMISSIONS – 80 TPY
NOx EMISSIONS – 467 TPY
OPACITY – 10% EXCEPT AS ALLOWED



SOURCE: FOSTER WHEELER ENVIRONMENTAL CORPORATION, 1997

CITY OF TALLAHASSEE

SIMPLIFIED PROCESS FLOW DIAGRAM

PURDOM UNIT 8 PROJECT - ST MARKS, FLORIDA

Figure 2-1

AL

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In the Matter of an
Application for Permit by:

OGC CASE NO. _____

City of Tallahassee Utility Services
300 South Adams Street
Tallahassee, FL 32301

DRAFT Permit No.: PSD-FL-239
Purdom Generating Station
Wakulla County

_____/

REQUEST FOR EXTENSION OF TIME

By and through undersigned counsel, the City of Tallahassee (Tallahassee) hereby requests, pursuant to Florida Administrative Code Rules 28-106.111(3) and 62-103.050(1), an extension of time, to and including August 19, 1997, in which to file a Petition for Administrative Proceedings in the above-styled matter. As good cause for granting this request, Tallahassee states the following:

1. On or about July 8, 1997, Tallahassee received from the Department of Environmental Protection (Department) an "Intent to Issue PSD Permit" (Permit No. PSD-FL-239) for the Purdom Generating Station in Wakulla County, Florida. Along with the Intent to Issue, Tallahassee received a draft PSD permit and "Public Notice of Intent to Issue PSD Permit."

2. Tallahassee previously requested an extension to and including August 5, 1997. While Charles T. (Chip) Collette with the Department's Office of General Counsel orally agreed to this extension, an Order formally granting the extension has not been issued.

3. The draft permit and notice contain several provisions that warrant clarification or correction.

4. Representatives of Tallahassee have met and corresponded with staff of the Department's Bureau of Air Regulation in an effort to resolve the issues identified by Tallahassee. Final resolution of a few remaining issues is expected soon.

5. This request is filed simply as a protective measure to avoid waiver of Tallahassee's right to challenge certain conditions contained in the draft PSD permit. Grant of this request will not prejudice either party, but will further their mutual interest and likely avoid the need to file a petition and proceed to a formal administrative hearing.

6. On behalf of the Department, Charles T. (Chip) Collette with the Department's Office of General Counsel has agreed to Tallahassee's request for an extension of time until August 19, 1997.

WHEREFORE, Tallahassee respectfully requests that the time for filing of a Petition for Administrative Proceedings in regard to the Department's Intent to Issue PSD Permit for Permit No. PSD-FL-239 be formally extended to and including August 19, 1997.

Respectfully submitted this 1st day of August, 1997.

HOPPING GREEN SAMS & SMITH, P.A.

Angela R. Morrison, Fla. Bar No. 0855766
123 South Calhoun Street
Post Office Box 6526
Tallahassee, FL 32314
(904) 222-7500

Attorney for CITY OF TALLAHASSEE UTILITY SERVICES

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of the foregoing has been furnished to the following by U.S. Mail on this 1st day of August, 1997:

Clair H. Fancy, P.E.
Chief
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2600

Charles T. (Chip) Collette, Esq.
Office of General Counsel
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2600

Angela C. Morrison
Attorney

96539

AL

CITY OF TALLAHASSEE

CITY HALL
300 S. ADAMS ST.
TALLAHASSEE, FL
32301-1731
904/891-0010
TDD,1-800/955-8771

SCOTT MADDOX
Mayor
STEVE MEISBURG
Mayor Pro Tem

JOHN PAUL BAILEY
Commissioner
DEBBIE LIGHTSEY
Commissioner
RON WEAVER
Commissioner

ANITA R. FAVORS
City Manager
ROBERT B. INZER
City Treasurer-Clerk

JAMES R. ENGLISH
City Attorney
RICARDO FERNANDEZ
City Auditor

Hand Delivered

July 24, 1997

Mr. C. H. Fancy, P.E., Chief
Bureau of Air Regulation
Department of Environmental Protection
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Dear Mr. Fancy:

Subject: Purdom Unit 8 Project
Comments on Draft Permit No. PSD-FL-239/PA97-36

Thank you very much for your timely review of our application and for allowing us to meet with you and your staff to resolve all of the major issues which had concerned us regarding the conditions which would apply to the Purdom Unit 8 Project. We believe that all that remains are a number of relatively minor corrections and edits, including a number of corrections to the suggested wording of conditions which we provided to the Department.

Enclosed please find our comments on the subject Draft Permit as well as a revised version (using the strike through/italics method for suggested changes) for your use. As per discussions with Mr. Martin Costello, of your office, we have set-up a meeting for Monday, July 28, 1997, to discuss our minor comments/corrections. Although relatively minor, we would like to get them resolved as quickly as possible in order to facilitate getting the draft Title V Amendment completed in a timely manner.

Thank you for your time and consideration of this matter. If you have any question on this information, please do not hesitate to call me at(850) 891-8850.

Sincerely,

Jennette Curtis

Jennette Curtis
Environmental Administrator

JC/ns

Enclosure

cc. Al Linero(DEP)
Martin Costello (DEP)
Cleve Holladay (DEP)
R. McGarrah (COT)
A. Morrison (HGSS)
D. Fulle (FWENC)
D. Graziani (FWENC)
F. Michel (RE&C)
File 363.501, .511, .705

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AC

THE STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In the Matter of an
Application for Permit by:

City of Tallahassee Utility Services
300 South Adams Street
Tallahassee, FL 32301

OGC CASE NO. _____

DRAFT Permit No.: PSD-FL-239
Purdom Generating Station
Wakulla County

REQUEST FOR EXTENSION OF TIME

By and through undersigned counsel, the City of Tallahassee (Tallahassee) hereby requests, pursuant to Florida Administrative Code Rules 28-106.111(3) and 62-103.050(1), an extension of time, to and including August 5, 1997, in which to file a Petition for Administrative Proceedings in the above-styled matter. As good cause for granting this request, Tallahassee states the following:

1. On or about July 8, 1997, Tallahassee received from the Department of Environmental Protection (Department) an "Intent to Issue PSD Permit" (Permit No. PSD-FL-239) for the Purdom Generating Station in Wakulla County, Florida. Along with the Intent to Issue, Tallahassee received a draft PSD permit and "Public Notice of Intent to Issue PSD Permit."

2. The draft permit and notice contain several provisions that warrant clarification or correction.

3. Representatives of Tallahassee plan to meet and correspond with staff of the Department's Bureau of Air Regulation in an effort to resolve the issues identified by Tallahassee.

4. This request is filed simply as a protective measure to avoid waiver of Tallahassee's right to challenge certain conditions contained in the draft PSD permit. Grant of

CITY OF TALLAHASSEE

CITY HALL
300 S. ADAMS ST.
TALLAHASSEE, FL
32301-1731
904/891-0010
TDD 1-800/955-8771

July 18, 1997

Certified Mail No. P483 230 28[illegible]

Mr. Hamilton S. Oven, Administrator
Office of Siting Coordination
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Subject: City of Tallahassee
Purdom Unit 8 Project
Partial Draft - Proposed Conditions of Certification

Dear Mr. Oven:

Enclosed please find hard copy and disk versions of a partial draft of proposed Conditions of Certification for the Purdom Station. This is in response to our discussion on this matter last month. We have drafted proposed conditions for the existing units at Purdom based on their existing permits in an effort to make it easier for the various agencies involved to come up with a consistent set of conditions. Also included are some proposed "facility-wide" conditions which will be applicable to the new Unit 8 as well as to the existing units (we will add more proposed "facility-wide" conditions later). However, we have not attempted to compile a complete set of conditions as we didn't think that is what you had in mind. We have included a proposed set of NPDES conditions although it is understood that you may choose to simply provide a reference in the conditions to the separately issued NPDES permit. These conditions have been formatted so that they could serve as a stand alone NPDES permit.

Some explanation would probably be helpful on a couple of additional points. First, based on the plant history of successfully passing toxicity tests, and the fact that in three years there will be no wastewater discharges from the plant (except for the once through cooling water discharge from Unit 7), we have left out of the proposed conditions any reference to toxicity testing. Second, we have added a definition of "commercial operation" in the water related sections of the conditions because it is different from the typical regulatory usage of that term in the air quality arena. Third, we have added a proposed condition in the "Modification" section that deals with conforming the conditions to changes in the associated federal permits (i.e., Title V and NPDES), as it will be important to be able to avoid the PPSA formal modification process for minor changes which occur in these permits. We believe this third point is consistent with your current practice.

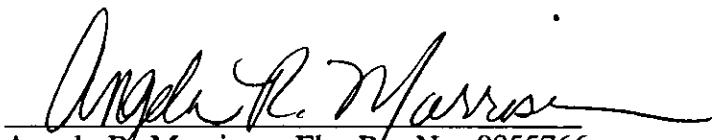
this request will not prejudice either party, but will further their mutual interest and likely avoid the need to file a petition and proceed to a formal administrative hearing.

5. On behalf of the Department, Charles T. (Chip) Collette with the Department's Office of General Counsel has agreed to Tallahassee's request for an extension of time until August 5, 1997.

WHEREFORE, Tallahassee respectfully requests that the time for filing of a Petition for Administrative Proceedings in regard to the Department's Intent to Issue PSD Permit for Permit No. PSD-FL-239 be formally extended to and including August 5, 1997.

Respectfully submitted this 21st day of July, 1997.

HOPPING GREEN SAMS & SMITH, P.A.



Angela R. Morrison, Fla. Bar No. 0855766
123 South Calhoun Street
Post Office Box 6526
Tallahassee, FL 32314
(904) 222-7500

Attorney for CITY OF TALLAHASSEE UTILITY SERVICES

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a copy of the foregoing has been furnished to the following by U.S. Mail on this 21st day of July, 1997:

Clair H. Fancy, P.E.
Chief
Bureau of Air Regulation
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2600

Charles T. (Chip) Collette, Esq.
Office of General Counsel
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2600

Attorney

96539

While we have included a set of air quality conditions for the existing units only (taken from the "Proposed" Title V Permit), we recognize that it is somewhat difficult to evaluate the conditions applicable to those units in isolation from the conditions which will apply to Unit 8 and to the facility as a whole. Therefore, we want you to know that we intend to provide a complete set of air quality related proposed conditions in the near future which will take into account the language from the draft PSD Permit for Unit 8 as well as the Proposed Title V Permit.

Please note that we did not copy the NWFWMD. If you have any questions on this material, please do not hesitate to call me at (850) 891-8850.

Sincerely,

Jennette Curtis

Jennette Curtis
Environmental Administrator

Enclosures

cc: R. McGarrah (COT)
G. King (COT)
G. Sams (HGSS)
A. Morrison (HGSS)
F. Michel (RE&C)
D. Fulle (FWENC)
Clair Fancy, (DEP)
Craig Diltz, (DEP)
Al Linero, (DEP)
Martin Costello, (DEP)
Cleve Holliday, (DEP)
c/winword/letters/ovenltr.doc

COMMENTS ON
PURDOM UNIT 8
DRAFT PERMIT NO. PSD-FL-239/PA-36

PUBLIC NOTICE OF INTENT TO ISSUE PSD PERMIT

Please confirm that the following corrections and changes to this notice can be made:

1. In the first paragraph, clarification that a BACT determination was "conducted" rather than "required" as we have previously discussed.
2. In the second paragraph, addition of the word "nominal" in front of "250" when referencing the capacity of Unit 8.
3. In the second paragraph, addition of the words "meet its system needs and" after the words "heat recovery steam generator to" in order to more fully describe the need for Unit 8.
4. In the second paragraph, addition of the words "(gas) and water injection (diesel)" after the words "dry low NO_x burners" and add the word "primary" in front of "use of natural gas" in that same sentence.
5. In the third paragraph, addition of "nominal" in front of each reference to a MW rating.
6. In the first line of the third paragraph, insertion of "/or" after "and" to better describe how the fuels are fired.
7. In the second line of the third paragraph, correction of the rating of the existing combustion turbines to a nominal 12.3 MW each.
8. In the table of Class II increment consumption, correction of the allowable increment for PM_{10} to 30 $\mu g/m^3$.
9. In the fourth paragraph on the second page of the notice, correction of "Chapter 403.501-519" to "Sections 403.501 - .519."
10. Revision of the fifth and sixth paragraphs on the second page, and deletion of the first four paragraphs on the third page to clarify that mediation is not available for this proceeding. This has been confirmed and approved by Charles T. (Chip) Collette of the Department's Office of General Counsel.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION:

If your intent is to reissue the text of the Technical Evaluation and Preliminary Determination in the Final Determination, we suggest the following corrections, and, in any case, request that you note them:

1. On the title page, please refer to the Project as a "250 Megawatt Combined Cycle Combustion Turbine and Heat Recovery Steam Generator."
2. In Section 2.1 change "Northeast" to "north" after "0.7 kilometers."
3. In the first paragraph of Section 3, please add "combustion turbine" after "GE MS7231FA" in the first sentence for clarification purposes, and add "(gas) and water injection(diesel)" after "NO_x" in that same sentence in order to clarify that water injection is also used.
4. Also in the first paragraph of Section 3, please replace "an electric motor" with "the generator and a static start system" in the third sentence to be technically correct.
5. In the second paragraph of Section 3, please delete the word "and" after "natural gas," on the fourth line, change the commas on the fifth and sixth lines to semicolons, and change the combustion turbine ratings to 12.3 MW for clarification.
6. In Section 5, please eliminate Rules 62-204.220, 62-204.240, 62-204.260, 62-204.360, and 62-297.520 from the list of applicable rules with which the emission units must comply as we believe that they are not directly applicable to the Project.
7. In Section 6.2, Table 1, please swap the current and future values for both Beryllium and Lead to correct typographical errors.
8. In Section 6.2, Table 1, please move the "*" to the column heading, replace the three "0" values in that column with "40, 40, 100" and add a second sentence to the footnote which reads "In this case no pollutants would produce such an impact and the standard criteria apply" for clarification.
9. In Section 6.3.1, please modify the fourth sentence to read "The firing temperature on this Frame 7FA combustion turbine will be 2400 ^{o}F" as this temperature is not applicable to all 7FA's.
10. In Section 6.3.1, fifth line from the end, please insert "Mark V" after "GE's", change "IV" to "V" in the next line, and change "the" to "a" after the word "throughout" in the third to last line for clarification.
11. In Section 6.3.4, please change "higher loads" to "full load" in the next to last line to be technically correct.
12. In Section 6.4.1, there is a reference to a remand of EPA's stack height rules. Upon review of the remand, we believe that none of the remanded provisions are applicable to this case. Please remove the language indicating that the permit may be modified when EPA modifies its stack height rules.
13. In Section 6.5.3, please delete the word "annual" as this is true for short-term concentrations as well.
14. Please replace the Simplified Process Flow Diagram with the attached version which eliminates the electric starter.

<u>DRAFT CONSTRUCTION PERMIT PSD-FL-239/PA97-36</u>

1. In Section I, Subsection A, please replace the two paragraphs with the corrected paragraphs from the TE/PD, per our comments above.
2. In Section I, Subsections C and D, please refer the 04-21-97 and 05-01-97 letters as "Completeness Memos" rather than an "Incompleteness Letters," and change the date on the second one from 05-01-97 to 04-25-97. Please eliminate the 05-07-97

Company response line. Also, please change the date on the completeness determination from 05-07-97 to 05-01-97, and add "and sufficient by PPS Department" to the description.

3. In Section II, Subsection A, Condition 5, please consider providing an expiration date for the permit, possibly "five years from the date of issuance," as this condition seems inconsistent with Condition III.G.9 and the Department's Rule 62-4.070(4), F.A.C.
4. In Section III, Subsection A, Condition A.4, please remove the words "an oxidation catalyst and/or" as there will be room left for an SCR but not for an oxidation catalyst in the HRSG.
5. In Section III, Subsection A, Condition A.9, please remove the second sentence, as it might inadvertently imply the need to minimize oil firing. As you know, the dry low NO_x burner is in the diffusion mode when the combustion turbine is firing oil.
6. In Section III, Subsection A, Condition B.1, please modify footnote (a) in the table by adding the words "excluding startup, shutdown, malfunction, and fuel switching."
7. In Section III, Subsection A, Condition D.1, please indicate that the annual Method 10 Determination of Carbon Monoxide is for gas firing only since the annual RATAs will be conducted on gas. Also, under the 40 CFR 75 heading, please change the third sentence to read "Based on CEMS data at the end of each operating day, a new 30 day average emission..." in order to avoid confusion. Finally, please clarify that initial compliance testing is required "within 60 days after achieving the maximum production rate ',on each fuel,' at which this unit will be operated, but not later than 180 days of initial operation of the unit 'for that fuel,' and annually thereafter...." This is because Unit 8 may not be operated on fuel oil for some time after startup on gas.
8. In Section III, Subsection A, Condition D2, please eliminate the words "and for acid rain compliance purposes" from the third sentence as the fuel supplier data is not actually used for acid rain purposes, and acid rain compliance will be addressed in the acid rain part of the Title V Permit.
9. In Section III, Subsection A, Condition F.3.f, please change "form" to "from" and eliminate the parenthetical "(Florida Gas Transmission Company)" to avoid the implication that FGT is the only potential gas supplier.
10. In Section III, Subsection A, Condition 5, please refer to the conversion factor added to the first formula as a "units conversion factor" to be more specific to the type of conversion factors which might be used there. Also, in the notes following the fifth formula, please add a parenthetical after the second note which reads "(i.e., 0.05 % Sulfur = 0.0005)". Finally, in the last formula, please change the term "Heat Rate" to "Heating Value" of natural gas.
11. In Section III, Subsection A, please remove Condition G.1 as it appears redundant with the introductory paragraph under A. General Operating Requirements, and renumber the remaining conditions.
12. In Section III, Subsection A, Condition G.6 (now G.5), please change the citation from "4 CFR...." to "40 CFR...." to correct this typographical error.
13. In Appendix GC, please check all three boxes in Condition G.13.

APPENDIX BD BEST AVAILABLE CONTROL TECHNOLOGY DETERMINATION(BACT)

1. In the introduction, please replace the first two paragraphs with the same two paragraphs from the TE/PD discussed earlier.
2. Under the Nitrogen Oxides heading, in the second full paragraph on Page BD-6, please make the same changes discussed above for the TE/PD (Comment 10) regarding firing temperature, the Mark V Speedtronic control system, and range of loads.