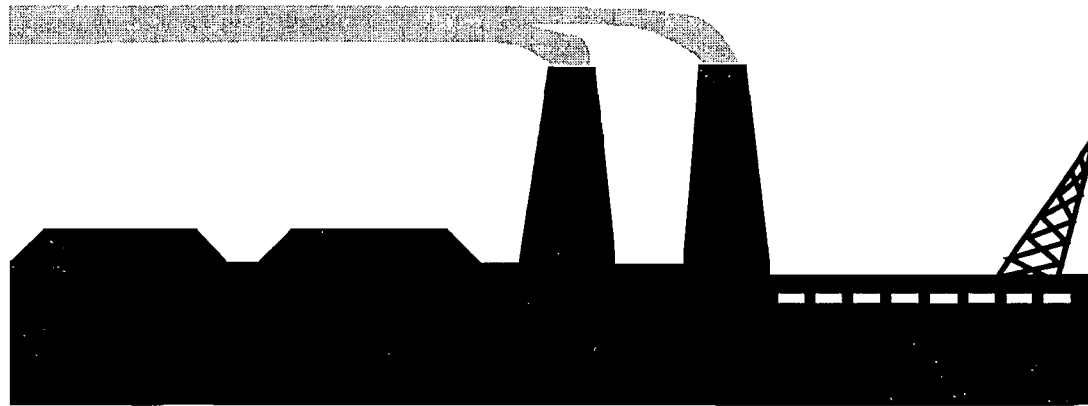


Title V Permit Application



Lauderdale Plant



State of Florida summary checklist for initial Title V permit applications for 'existing' Title V Sources

Facility Owner/Operator Name: Florida Power & Light Company
Facility ID No.: 0110037 Site Name: Lauderdale Plant
County: Broward
application receipt date 06/12/96

I. Preliminary scanning of application submitted.

- a. Was application submitted to correct permitting authority? Y N
- b. Was an application filed? Y* N
- c. Was the application filed timely? Y* N

d. Application format filed [check one].

Hard copy of official version of form? ELSA?
 A facsimile of official version of form? Some combination?
03/21/96

e. 4 copies (paper/electronic) submitted? Y N

f. Electronic diskettes protected/virus scanned/checked? Y N N/A
by _____ date ___/___/___

g. Entire hard copy of Section I. provided (Pages 1-8 of form)? Y N
 Facility identified (Page 1)? [if not complete a Page 1] Y* [Attached
 R.O. certification signed and dated (Page 2)? Y* N
 P.E. certification signed and dated (Page 7)? Y* N

h. Any confidential information submitted? Y N
 If yes, R.O. provided hard copy to us and EPA? Y* N
 If yes, hard copy locked up and note filed with application? Y* N

i. Type of application filed.
 TV application for 'existing' Title V Source only? Y N
 Any units subject to acid rain? Y N

Note(s): [*] = mandatory.

Comment(s): _____

Reviewer's initials SS date 06/13/96 Concurrence initials _____ date ___/___/___

(FOR INTERNAL USE ONLY)

State of Florida summary checklist for initial Title V permit applications for 'existing' Title V Sources (cont'd)

II. Application logging.

ARMS Permit Number assigned _____ - _____ - _____
logged into ARMS by initials _____ date ____/____/____

III. Initial distribution of application.

a. Disposition of 4 paper/electronic copies submitted:

- 1- Clean originals to file? Y____ N____
- 1- _____ District Y____ N____
- 1- _____ County [affected local program]? Y____ N____
- 1- Permit engineer(s) _____, _____

b. Disposition of electronic files submitted:

copy placed onto PC? Y____ N____

c. Disposition of ELSA submitted:

version used [circle]: 1.0 1.1 1.2.1 1.3 1.3a 1.3b

Uploaded to EARS? Y____ N____

by _____ date ____/____/____

d. Electronic information submitted previewed? Y____ N____ N/A____

Comment(s): _____

{this checklist was developed from Rule 62-213.420(1)(b)2., F.A.C. and DARM policy}

6/11/96
:\t5opgen\0_check\iapcheck.doc

*Working
copy*

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LAUDERDALE TITLE V APPLICATION

Section 1 Application Information

Section 2 Facility Information

Section 3 Emission Unit Information

(Includes Emission Point, Segment, Pollutant, Visible Emission, Continuous Monitor, and PSD Information)

- EU1 - 4A CT
- EU2 - 4B CT
- EU3 - 5A CT
- EU4 - 5B CT
- EU5 - GT Units 1 thru 12
- EU6 - GT Units 13 thru 24
- EU7 - Fuel oil tank #2
- EU8 - Fuel oil tank #3
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- EU10 - Underground unleaded storage tank
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- EU12 - Underground dump tanks
- EU13 - Unregulated Emission Units
- EU14 - Solvent losses

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy form.

Identification of Facility Addressed in This Application

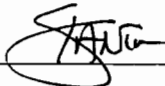
Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and a brief reference to the facility's physical location. If known, also enter the facility identification number.

1. Facility Owner/Company Name: Florida Power & Light Company	
2. Site Name: Lauderdale Plant	
3. Facility Identification Number : 0110037	
4. Facility Location Information: Facility Street Address: 2 Miles West of Ravenswood Road City: Ft. Lauderdale County: Broward Zip Code: 33004	
5. Relocatable Facility? (Y/N): N	6. Existing Permitted Facility?(Y/N): Y

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Name: John Stanton Title : Plant General Manager		
2. Owner or Responsible Official Mailing Address: Organization/Firm: FPL Environmental Services Department Street Address: 11770 U.S. Highway One City: North Palm Beach State: FL Zip Code: 33408		
3. Owner or Responsible Official Telephone Numbers: Telephone: 9545273601 Fax: 9545273636		
4. Owner or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative* of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200 F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statues of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>		
Signature 		Date <u>5.28.96</u>

* Attach letter of authorization if not currently on file.

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility (or Title V source). An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emission s Unit Id	Description of Emissions Unit	Permit Type
01	Combined Cycle Unit 4A (ARMS ID # 50BRO06003735)	
02	Combined Cycle Unit 4B (ARMS ID # 50BRO06003736)	
03	Combined Cycle Unit 5A (ARMS ID # 50BRO06003737)	
04	Combined Cycle Unit 5B (ARMS ID # 50BRO06003738)	
05	Gas Turbine Bank Units 1 - 12 (ARMS ID # 50BRO06003703)	
06	Gas Turbine Units 13 - 24 (ARMS ID # 50BRO06003715)	
07	Storage Tank No 2 (ARMS ID # 50BRO06003727)	
08	Storage Tank No 3 (ARMS ID # 50BRO06003728)	
09	Storage Tank No 5 (ARMS ID # 50BRO06003729)	
10	Gasoline Storage Tank (Underground) (ARMS ID # 50BRO06003732)	
11	Diesel Fuel Storage Tank (Underground) (ARMS ID # 50BRO06003733)	
12	Two Gas Turbines Dump Tanks (ARMS ID # 50BRO06003730)	
13	Unregulated Emission Units	
14	Site Solvent Usage (ARMS ID # 50BRO06003734)	

Purpose of Application and Category

Enter the Letter that applies and related information (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 17-213, F.A.C.

This Application for Air Permit is submitted to obtain (A,B,C,D,E,F): A

[A] Initial air operation permit under Chapter 17-213, F.A.C., for an existing facility which is classified as a Title V source.

[B] Initial air operation permit under Chapter 17-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:

[C] Air operation permit renewal under Chapter 17-213, F.A.C., for a Title V source.

Operation permit to be renewed:

[D] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:

Operation permit to be revised:

[E] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application for such emissions unit(s). Also check appropriate item under Category III.

Operation permit to be revised/corrected:

[F] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised:

Reason for Revision:

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 17-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain (A,B,C):

- [A] Initial air operation permit under Rule 17-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

- [B] Renewal air operation permit under Rule 17-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed:

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

Operation permit to be revised:

Reason for revision:

Category III: All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain (A,B,C):

- [A] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any:

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

Current operation permit number(s):

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

Application Processing Fee

Check one:

[N] Applicable (Y/N) Attached - Amount: \$

Construction/Modification Information

1. Description of Proposed Project or Alterations : Not Applicable - existing facility
2. Projected or Actual Date of Commencement of Construction (DD-MON-YYYY):
3. Projected Dates of Completion of Construction (DD-MON-YYYY):

Professional Engineer Certification

1. Professional Engineer Name: Kennard F. Kosky Registration Number: 14996
2. Professional Engineer Mailing Address: Organization/Firm: KBN Engineering, Inc. Street Address: 6241 NW 23rd Street, Suite 500 City: Gainesville State: FL Zip Code: 32653
3. Professional Engineer Telephone Numbers: Telephone: 3523365600 Fax: 3523366603

LAUDERDALE PLANT

4. Professional Engineer Statement:

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

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

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

If the purpose of this application is to obtain a Title V source air operation permit (check here [] if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

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

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

Signature

Herold F. Goff

Date

6/18/96

(seal)

* Attach any exception to certification statement.

Application Contact Information

1. Name and Title of Application Contact: Name: Richard G. Piper Title: Environmental Specialist			
2. Application Contact Mailing Address: Organization/Firm: FPL Environmental Services Street Address: 11770 U.S. Highway One City: North Palm Beach State: FL Zip Code: 33408			
3. Application Contact Telephone Numbers: Telephone: 5616257661 Fax: 5616257251			

Application Comment

This application is for the Lauderdale Power Plant which consists of two Combined-Cycle Units (Units 4 and 5), each with a net capability of 430 megawatts (net summer continuous rating) and two banks of 12 simple-cycle gas-turbine peaking units each with a net capability of 504 megawatts.

Each Combined Cycle Unit consists of two combustion turbines which each exhaust through a separate Heat Recovery Steam Generator (HRSG). Each HRSG converts the heat from the CT exhaust into steam. The steam produced from 2 HRSGs drives a single-reheat turbine generator. In the current PSD permit and Site Certification for this facility, ductburners have been permitted, however they were never installed in the HRSG ductwork. Consequently FPL applied for and was granted a "reallocation" of the emissions and heat input from the ductburners, back to the CT's. The reader will see many references to the ductburners in this document, however a separate emission unit section has not been prepared for them because they do not exist at the present time. If at some future date FPL decides to install the ductburners, the Title V application will be modified appropriately. The HRSG is designed to accommodate the future installation of ductburners.

This site consists of two combined cycle generating units, two banks of 12 simple-cycle gas turbine units, and miscellaneous oil storage tanks. FPL has operated a steam electric generating plant at the Lauderdale facility since 1926. In 1957 and 1958, units 4 and 5 were constructed. These two units operated as constructed until relatively recently; unit 4 shut down October 7, 1991, and unit 5 shut down October 14, 1991. Both units were repowered with the incorporation of combustion turbines and heat recovery steam generators (HRSG's) to the existing steam turbines. Startup of the newly-repowered units occurred in May 1993 and June 1993 .

Before repowering, the facility took a limitation on VOC of 99.92 TPY under the construction permit (AC-16-199041). The site also was issued an operating permit (AO-06-230614). Since the old steam units 4 and 5 were retired in 1991, the only emission units that this limitation currently applies to are the simple-cycle gas turbines, the fuel storage tanks, and facility-wide solvent usage. The CT's currently have aggregate capacity limitations of 87% annually for all four CT's on any fuel, and a 25 % aggregate annual capacity factor limitation on distillate oil. The simple-cycle gas turbines currently have annual heat input limits of 10% annually for each bank of twelve.

There are six regulated tanks at this facility under current Air Operating permit # AO 06-230614. Each tank is considered in a separate emission unit section.

Attachment PFLAI_1.xls presents the structure of this Title V application.

Attachment PFLAI 1.txt
Facility Information and Application Structure

FACILITY: Florida Power & Light Lauderdale Plant

INFORMATION SUPPLIED	SOURCES		
	4-Combustion Turbines (CT)	24-Gas Turbines (GT)	TANKS
GENERAL	4 EMISSION UNITS consisting of turbine exhausting through HRSG; each unit regulated separately.	2 banks of 12 gas turbine units consisting of simple cycle gas turbines; each tank regulated collectively.	6 tanks with distillate oil and 1 tank with gasoline; each tank regulated separately.
EMISSION POINTS	1 stack per emission unit	12 stack per emission unit	each tank has a vent (s)
SEGMENTS	Natural gas (primary fuel) and distillate oil (backup fuel)	Natural gas and and distillate oil	1 type of fuel per tank
POLLUTANTS	Natural Gas: PM/PM10, SO ₂ , NO _x , CO, VOC, Hg, H ₂ SO ₄ Distillate Oil: PM/PM10, SO ₂ , NO _x , CO, VOC, Pb, As, Be, F, Hg, H ₂ SO ₄ , Formaldehyde, Mn, Ni, P	Natural Gas: PM/PM10, SO ₂ , NO _x , CO, VOC Distillate Oil: PM/PM10, SO ₂ , NO _x , CO, VOC, H ₂ SO ₄ , Formaldehyde, Mn, Ni	VOC
VISIBLE EMISSION	VE Limits Applicable	VE Limits Applicable	Not Applicable
CONTINUOUS MONITOR	Compliance: Nox: Steam/Fuel Ratio Monitoring: NO _x & CO ₂	None	Not Applicable
PSD	Emission units are increment consuming	Emission units are not increment consuming	Not Applicable

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Information for Facility-Id : /

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East: 580.2 North: 2883.3
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 26 - 4 - 5 Longitude (DD/MM/SS): 80 - 11 - 54
3. Governmental Facility Code: N/A 4. Facility Status Code: Active 5. Facility Major Group SIC Code: 49 6. Facility SIC(s): 4911
7. Facility Comment: (limit to 500 characters)

Facility Contact

1. Name and Title of Facility Contact: Name : Kathryn Pascale Title : Environmental Specialist
2. Facility Contact Mailing Address: Organization/Firm: FPL Lauderdale Plant Street Address: P.O. Box 155 City: Dania State: FL Zip Code: 33004 -
3. Facility Contact Telephone Numbers: Telephone: 9547971338 Fax: 9547971579

Facility Regulatory Classifications

1. Small Business Stationary Source? (Yes/No/Unknown)(Y/N/U) : N
2. Title V Source? (Yes/No) (Y/N) : Y
3. Synthetic Non-Title V Source? (Yes/No) (Y/N) : N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? (Yes/No) (Y/N) : Y
5. Synthetic Minor Source of Pollutants Other than HAPs? (Yes/No) (Y/N) : N
6. Major Source of HAPs? (Yes/No/Possible) (Y/N/P) : Y *
7. Synthetic Minor Source of HAPs? (Yes/No) (Y/N) : N
8. One or More Emissions Units Subject to NSPS? (Yes/No) (Y/N) : Y
9. One or More Emissions Units Subject to NESHAP? (Yes/No) (Y/N) : Y
10. Title V Source by EPA Designation? (Yes/No) (Y/N) : N
11. Facility Regulatory Classifications Comment (limit to 200 characters): This facility is located in an ozone "maintenance area", and therefore several of the emission units are subject to NOx RACT. Units 4A&B and 5A&B are subject to NSPS Subpart GG.

B. FACILITY REGULATIONS

Rule Applicability Discussion (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Information for Facility-Id : 1

<p>40 CFR 61.05 40 CFR 61.12(b) 40 CFR 61.145 40 CFR 61.148 40 CFR 61.150 40 CFR 61.19 40 CFR 82.166(k) 40 CFR 82.166(m) DNRP 27-173(h) F.A.C. 62-204.800(8)(b)8. (state only) F.A.C. 62-204.800(8)(d) (state only) F.A.C. 62-210.300(2) (except (b)) F.A.C. 62-210.300(3)(a)10. F.A.C. 62-210.300(3)(a)11. F.A.C. 62-210.300(3)(a)12. F.A.C. 62-210.300(3)(a)15. F.A.C. 62-210.300(3)(a)16. F.A.C. 62-210.300(3)(a)17.</p>	<p>F.A.C. 62-210.300(3)(a)20. F.A.C. 62-210.300(3)(a)21. F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.300(3)(a)23. F.A.C. 62-210.300(3)(a)24. F.A.C. 62-210.300(3)(a)4. F.A.C. 62-210.300(3)(a)5. F.A.C. 62-210.300(3)(a)7. F.A.C. 62-210.300(3)(a)8. F.A.C. 62-210.300(3)(a)9. F.A.C. 62-210.300(3)(b) F.A.C. 62-210.370(3) F.A.C. 62-210.900(5) F.A.C. 62-213.205(1)(a) F.A.C. 62-213.205(1)(b) F.A.C. 62-213.205(1)(c) F.A.C. 62-213.205(1)(e) F.A.C. 62-213.205(1)(f)</p>	<p>F.A.C. 62-213.205(1)(g) F.A.C. 62-213.205(1)(i) F.A.C. 62-213.205(1)(j) F.A.C. 62-213.205(4) F.A.C. 62-213.205(5) F.A.C. 62-213.400 F.A.C. 62-213.410 F.A.C. 62-213.420(1)(b)2. F.A.C. 62-213.420(1)(b)3. F.A.C. 62-213.430(3) F.A.C. 62-213.460 F.A.C. 62-256.300(1) F.A.C. 62-256.300(2) F.A.C. 62-256.300(3) F.A.C. 62-256.300(4) F.A.C. 62-256.300(7) F.A.C. 62-256.300(8) F.A.C. 62-256.300(9)</p>	<p>F.A.C. 62-256.500 F.A.C. 62-256.600 F.A.C. 62-256.700 F.A.C. 62-257.300 F.A.C. 62-257.301 F.A.C. 62-257.350 F.A.C. 62-257.400 F.A.C. 62-257.401 F.A.C. 62-257.900 F.A.C. 62-296.320(2) (state only) F.A.C. 62-296.320(3)(b) (state only) F.A.C. 62-296.320(4)(b) F.A.C. 62-296.320(4)(c) F.A.C. 62-297.310(7)(a)10. F.A.C. 62-4.030 F.A.C. 62-4.040(1)(a) F.A.C. 62-4.040(1)(b) F.A.C. 62-4.100 F.A.C. 62-4.130</p>
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C. FACILITY POLLUTANTS

Facility Pollutant Information :

1. Pollutant Emitted:	2. Pollutant Classification
SO2	A
NOX	A
CO	A
PM	A
PM10	A
VOC	A
H133	A
HAPS	A
SAM	A
H114	B
FL	B
H021	B

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information : Facility :/Pollutant #:2

1. Pollutant Emitted: Volatile Organic Compounds	
2. Emissions Cap: (lb/hr)	99.92 (tons/yr)
3. Basis for Emissions Cap Code: Requested by applicant for other reasons (Explain in comment field)	
4. Facility Pollutant Comment (limit 400 characters): The volatile organic compound (VOC) emissions at the facility (with the exception of CT VOC emissions) are limited to 99.92 tons per year by permit AC 06-179848. Please refer to Attachment PFLVOC.xls for a breakdown of individual contributions.	

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications For Facility :I

1. Area Map Showing Facility Location: PFLFS_1.bmp (Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)
2. Facility Plot Plan: PFLFS_2.bmp (Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)
3. Process Flow Diagram(s): PFLFS_3.bmp (Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: PFLFS_4.txt (Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)
5. Fugitive Emissions Identification : Attached Document ID: PFLFS_5.txt (Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)
6. Supplemental Information for Construction Permit Application: Not Applicable (Enter the Attached Document ID, NA - Not Applicable)

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities: PFLFS_7.xls (Enter the Attached Document ID, NA - Not Applicable)
8. List of Equipment/Activities Regulated under Title VI: PFLFS_8.txt (Enter the Attached Document ID, Equipment/Activities Onsite but not Required to be Individually Listed, NA - Not Applicable)
9. Alternative Methods of Operation: PFLFS_9.txt (Enter the Attached Document ID, NA - Not Applicable)
10. Alternative Modes of Operation (Emissions Trading): Not Applicable (Enter the Attached Document ID, NA - Not Applicable)
11. Identification of Additional Applicable Requirements: PFLFS_11.txt (Enter the Attached Document ID, NA - Not Applicable)
12. Compliance Assurance Monitoring Plan: Not Applicable (Enter the Attached Document ID, NA - Not Applicable)

13. Risk Management Plan Verification: Plan submitted to implementing agency by required date

Plan Submitted to Implementing Agency - Verification Attached(Attached Document ID)

Plan to be Submitted to Implementing Agency by Required Date

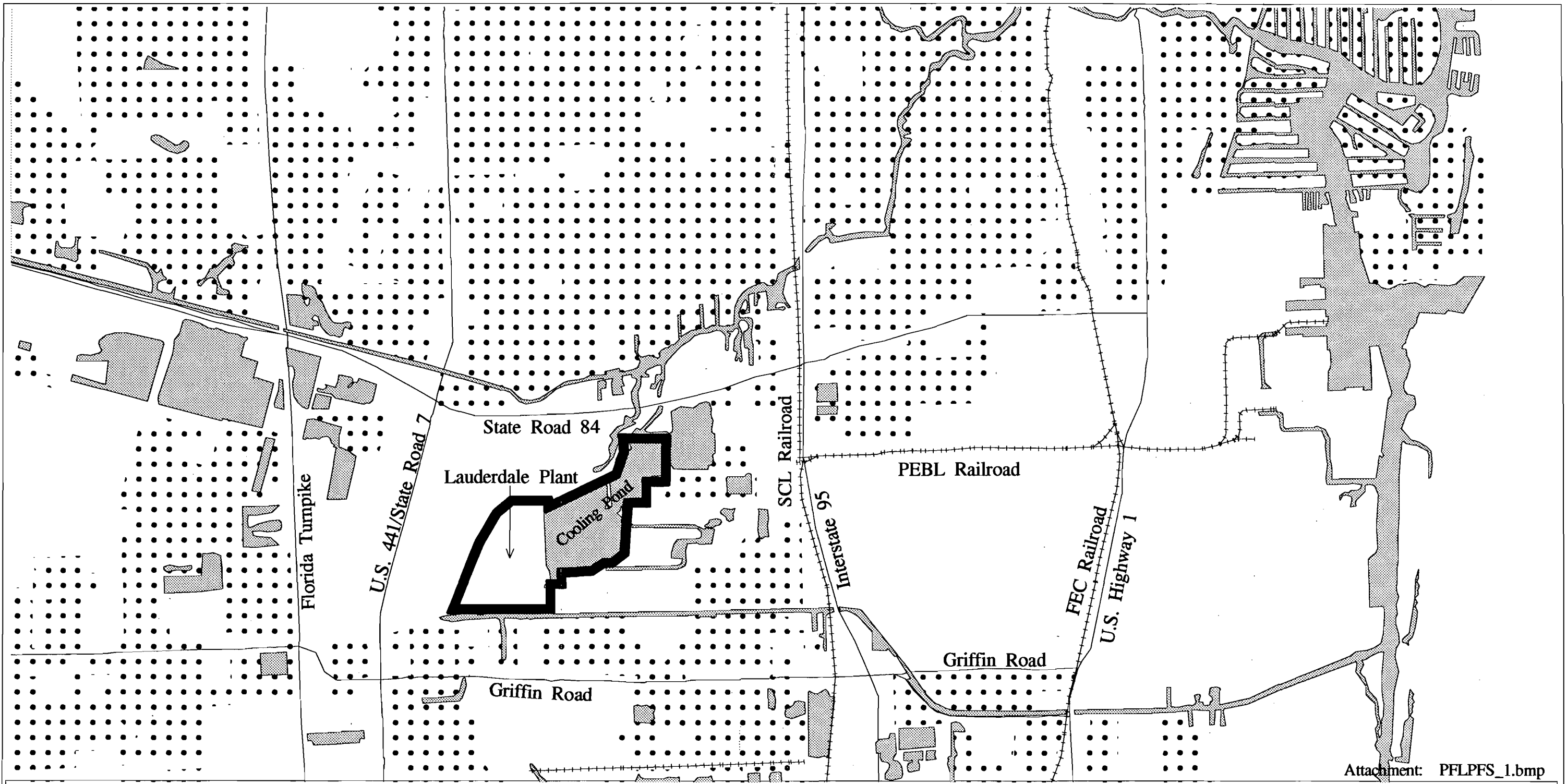
Not Applicable (NA)

14. Compliance Report and Plan: PFLFS_13.txt

(Enter the Attached Document ID, NA - Not Applicable)

15. Compliance Statement (Hard-copy Required): PFLFS_14.txt

(Enter the Attached Document ID, NA - Not Applicable)



Attachment: PFLPFS_1.bmp






Lauderdale Plant Area Map

Broward County



Environmental
FPL Affairs



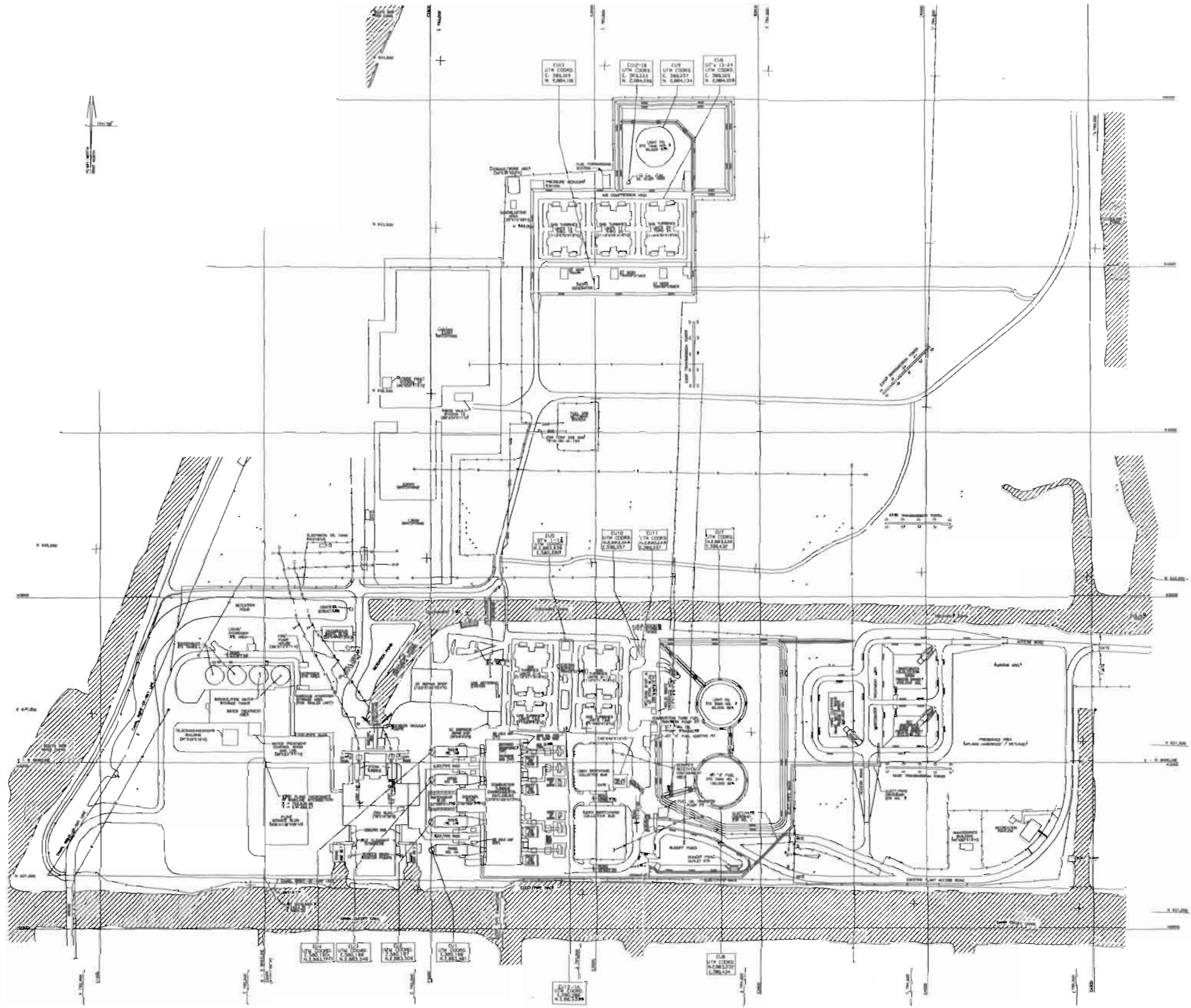
-  Water
-  Residential Areas
-  Lauderdale Plant Site
-  Major Roads
-  Railroads

TECHNICAL ACCEPTANCE	
DESIGNED BY	DATE
CHECKED BY	DATE
AS-BUILT INFORMATION	
DATE	DATE

TITLE SCALE
0 1 2 3 4 5 6 7 8 9 10

SCALE 1/4" = 1'-0"
0 1 2 3 4 5 6 7 8 9 10

SCALE 1/4" = 1'-0"
0 1 2 3 4 5 6 7 8 9 10

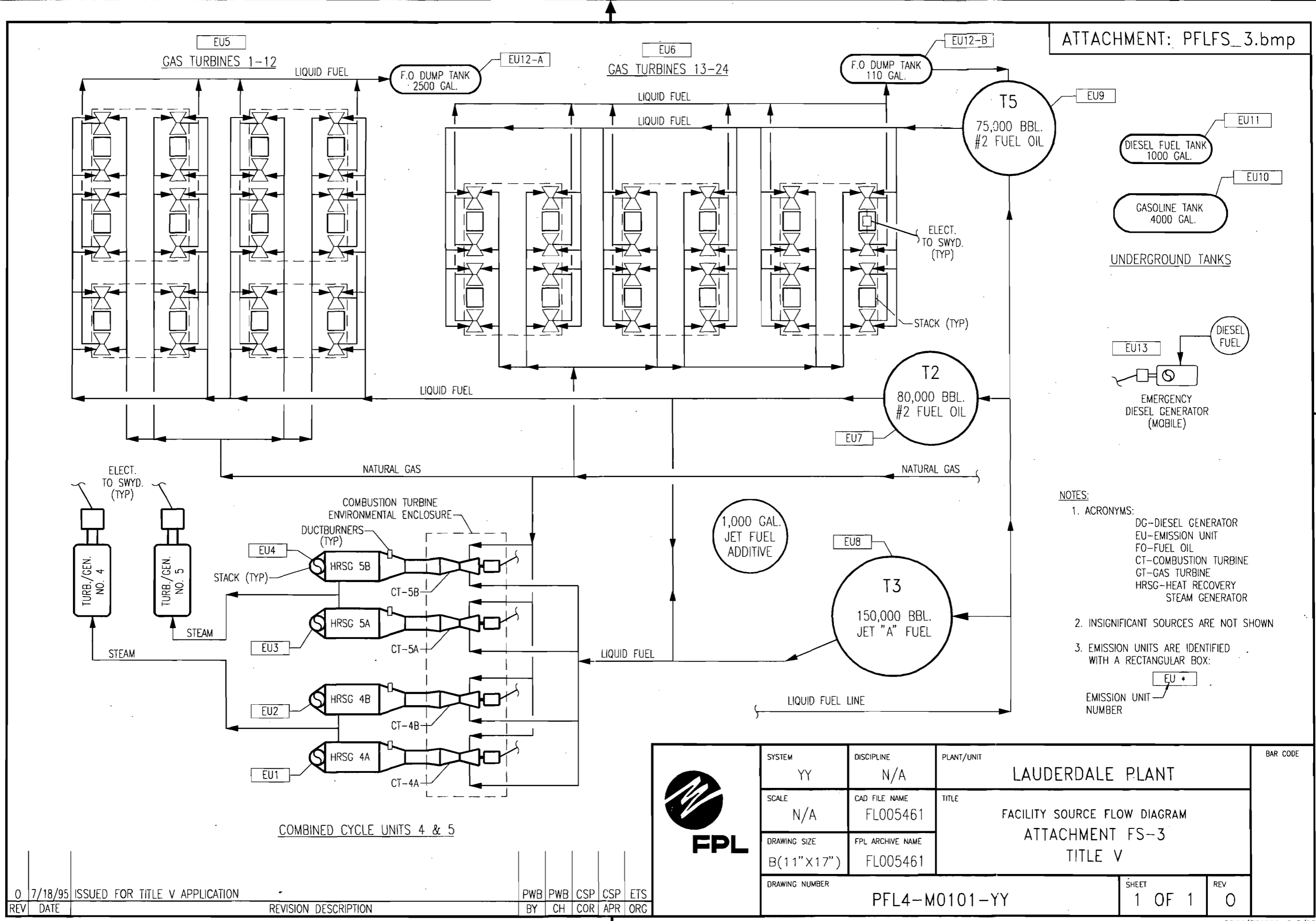


3. REVISIONS ISSUED FOR TITLE V PERMIT
REV. DATE REVISION DESCRIPTION

PROJECT NO. CSP/OSP/CIS
DATE 1/24/04

	SYSTEM	YY	DISCIPLINE	N/A	PROJECT NAME	LAUDERDALE PLANT
	SCALE	N/A	DATE	1/24/04	PROJECT NO.	10005-YY
	DRAWING NO.	FS-2	PROJECT NAME	FACILITY PLOT PLAN	SHEET	1 OF 1
	DRAWING SCALE	1/4" = 1'-0"	PROJECT NO.	10005-YY	DATE	1/24/04

TECHNICAL ACCEPTANCE		
ORG	BY	DATE
ENGINEERING ORGANIZATION		
ORG	BY	DATE
AS-BUILT INFORMATION		



- NOTES:
- ACRONYMS:
 DG-DIESEL GENERATOR
 EU-EMISSION UNIT
 FO-FUEL OIL
 CT-COMBUSTION TURBINE
 GT-GAS TURBINE
 HRSG-HEAT RECOVERY STEAM GENERATOR
 - INSIGNIFICANT SOURCES ARE NOT SHOWN
 - EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:
 EMISSION UNIT NUMBER EU *

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"

0	7/18/95	ISSUED FOR TITLE V APPLICATION	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
	YY	N/A	LAUDERDALE PLANT	
	SCALE	CAD FILE NAME	TITLE	
	N/A	FL005461	FACILITY SOURCE FLOW DIAGRAM ATTACHMENT FS-3 TITLE V	
DRAWING SIZE	FPL ARCHIVE NAME	DRAWING NUMBER		SHEET
B(11"X17")	FL005461	PFL4-M0101-YY		
			1 OF 1	0

Attachment PFLFS_4.txt

Precautions to Prevent Emissions of Unconfined Particulate Matter

The facility has negligible amounts of unconfined particulate matter as a result of the operation of the facility. Potential examples of fugitive particulate matter include:

- fugitive dust from paved and unpaved roads
- sandblasting abrasive material from plant maintenance activities
- fugitive particulates from the use of bagged chemical products (soda ash, di-, tri- and monosodium phosphate, and other chemicals as needed)

Several precautions were taken to prevent emissions of particulate matter in the *original design* of the facility. These include:

- Paving of roads, parking areas and equipment yards
- Landscaping and planting of vegetation

Operational measures are undertaken at the facility which also minimize particulate emissions, in accordance with 17-296.310 F.A.C.:

- Use of containment devices to contain and capture sand in the small sandblast facility. The plant facility also constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment.
- Maintenance of paved areas as needed
- Regular mowing of grass and care of vegetation
- Limiting access to plant property by unnecessary vehicles.
- Bagged chemical products are stored in weather-tight buildings until they are used. Spills of powdered chemical products are cleaned up as soon as practicable.

**Attachment PFLFS-5.txt
Fugitive Emission Identification**

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PFLFS-3. FPL is not aware of fugitive emissions of sulfur dioxide, nitrogen oxides, carbon monoxide or lead compounds which would exceed the thresholds defined in the permit application instructions.

Volatile Organic Compounds (VOC's)

Fugitive emissions of VOC's include those resulting from the use of cleaners and solvents for maintenance and operation. The site has a current permit condition (reference FDEP permit AO-06-230614) which limits solvent losses during the calendar year. The VOC emissions from these solvents are calculated by the following method:

"The solvent loss (volume) shall be equal to the total volume purchased/in stock minus the solvent volume reclaimed/disposed of offsite. The solvent volume loss shall then be multiplied by the emission factor (mass VOC per volume of solvent) to derive a TPY value. The total solvent TPY emission value will be added to the VOC emissions from the gas turbines and storage tanks, and the total VOC losses from these sources shall not exceed 99.92 TPY."

VOC's are also emitted by the various fuel oil storage tanks on the plant property, and by the combined-cycle combustion turbines and the simple-cycle gas turbines. VOC emissions for each of these emission units are covered in the respective ***Emission Unit*** sections of this permit application.

Hazardous Air Pollutants (HAP's)

Fugitive emissions of HAP's have been estimated to be less than the reporting threshold and are therefore not addressed in this application.

Attachment FS-9.txt
Alternative Methods of Operation

Combined cycle units

Each "combined cycle unit" consists of two combustion turbines (emissions units), two heat-recovery steam generators (HRSGs) and one steam turbine-generator.

The "normal" operating method for each combined cycle unit is: two combustion turbines firing, two HRSGs and one steam turbine operating. However, each unit may also be operated with only one combustion turbine supplying one HRSG and one steam turbine or in simple cycle mode which is one combustion turbine and no steam turbine or in simple cycle mode which is one combustion turbine and no steam turbine.

The 2 combined cycle units at the Lauderdale plant site may be operated 24 hours per day, 365 days per year at heat input rates from 0 to 100% of the permitted maximum on both natural gas fuel or on light distillate fuel oil. The combined cycle units as a group are limited to 54,129,421 MMBtu/year total heat input (at 75 degrees F; approximately 87% capacity factor), and as a group are additionally limited to 14,426,844 MMBtu/year total heat input at 75 degrees Fahrenheit (approximately 25% capacity factor) for distillate fuel operation, under the plant's existing PSD permit and Site Certification. The individual CT units do not currently have annual individual heat input limitations.

Possible Scenarios

<u>UNIT</u>	<u>FUEL</u>	<u>Heat Input per hour @ 75 deg. F</u>
4A	0 - 100% GAS	0 - 1775.62 MMBtu/hour
4A	0 - 100% OIL	0 - 1646.9 MMBtu/hour
4B	0 - 100% GAS	0 - 1775.62 MMBtu/hour
4B	0 - 100% OIL	0 - 1646.9 MMBtu/hour
5A	0 - 100% GAS	0 - 1775.62 MMBtu/hour
5A	0 - 100% OIL	0 - 1646.9 MMBtu/hour
5B	0 - 100% GAS	0 - 1775.62 MMBtu/hour
5B	0 - 100% OIL	0 - 1646.9 MMBtu/hour

Please note that the heat input rates and heat input limitations will fluctuate with ambient temperature. Also note that the above heat input numbers do not reflect the presence of ductburners.

Attachment FS-9.txt
Alternative Methods of Operation

Ductburners

The combined-cycle units as constructed did not incorporate duct burners although they were designed to accommodate them. However, duct burners were initially permitted for the facility. FPL requested in 1993 that because the ductburners were never installed, the heat input and associated emissions that would have been associated with the duct burners be reallocated to the combustion turbines, until such time as FPL installed the duct burners. The heat input numbers given above for the combustion turbines reflect the "without ductburners" condition. If and when FPL install ductburners in the future, the appropriate heat input will be reallocated to the ductburners, so long as the total heat input in any one of the four combustion turbine-HRSG sets does not exceed 1775.62 mmBtu / hour.

Simple-cycle Gas turbine units

Each of the 24 simple-cycle gas turbine units at the Lauderdale plant site may be operated 24 hours per day, 365 days per year at heat input rates from 0 to 702 MMBtu/hour on natural gas fuel or on light distillate fuel oil, or a combination thereof. The FDEP NOx RACT permits (AO 06-148760 and AO 06-148761) for the facility limit the combined capacity factor of each bank of 12 GT units to 7379×10^9 btu/year (approximately equal to 10 percent capacity factor per year). No capacity factor restriction is imposed upon the individual GT units.

Each "gas turbine unit" consists of two aircraft derivative gas turbines which exhaust through an air driven electrical generator and a single common stack.

These peaking simple-cycle gas turbine units have historically been regulated per bank of twelve individual units, and not individually (please refer to permit AO 06-230614). Also note that the Department has assigned an APIS number to each bank of twelve units, rather than to each individual GT.

Attachment FS-9.txt
Alternative Methods of Operation

Above-ground Fuel Tank Vents

The above-ground fuel tanks may be in use from 0 - 100% capacity for 365 days per year. These tanks will contain light distillate oil. Tank volumes and thruputs (listed in FDEP permit AO-06-230614) are as follows:

	<u>Volume</u>	<u>Thruput</u>	<u>VOC Limit</u>
Tank #2	80,000 bbls	54,260,842 gallons	2.33 tpy
Tank #3	150,000 bbls	106,079,730 gallons	4.46 tpy
Tank #5	75,000 bbls	54,260,842 gallons	2.29 tpy

(Note that these tanks supply fuel to all the GT's and CT's.)

Attachment FS-9.doc
Alternative Methods of Operation

Below-ground Fuel Tank Vents

The below-ground fuel tanks may be in use from 0 - 100% capacity for 365 days per year. These tanks will contain either diesel fuel or unleaded gasoline. Tank volumes and thruputs (derived from FDEP permit AO-06-230164) are as follows:

	<u>Volume</u>	<u>Thruput</u>	<u>VOC Limit</u>
Unleaded Tank	4,000 gal	10,000 gal	0.106 tpy
Diesel Tank	1,000 gal	5,000 gal	0.001 tpy

Gas Turbine Dump Tanks

The gas turbine dump tanks' function is to collect fuel oil that remains in the fuel lines which supply the gas turbines, upon a unit trip, or a switch from liquid fuel to natural gas fuel. Tank volumes and thruputs (derived from FDEP permit AO-06-230164) are as follows:

	<u>Volume</u>	<u>Thruput</u>	<u>VOC Limit</u>
GT Site 1 Dump Tank	2,500 gal	} 300,000 gal	0.003 tpy combined
GT Site 2 Dump Tank	110 gal		

Attachment PFLFS_8.txt

EQUIPMENT / ACTIVITIES REGULATED UNDER TITLE VI

The Lauderdale facility currently has over 100 refrigeration and air-conditioning units on the plant site. Of these, twelve air-conditioning units currently meet the 50-pound reporting threshold established by the Department:

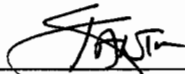
<u>Unit</u>	<u>Location</u>	<u>Pounds CFC</u>
Combined-cycle	Relay room	50
Combined-cycle	Relay room	50
Combined-cycle	Relay room	50
Combined-cycle	Relay room	50
Combined-cycle	Breaker room	120
Combined-cycle	Breaker room	120
Combined-cycle	Breaker room	120
Combined-cycle	Breaker room	120
Combined-cycle	Breaker room	120
Combined-cycle	Control room	360
Combined-cycle	Control room	360
NA	New Service Bldg.	120
NA	New Service Bldg.	120

**Attachment PFLFS_13.txt
Lauderdale Plant
Compliance Report and Plan**

The facility and emissions units identified in this application are in compliance with the Applicable Requirements identified in Sections II.B. and III.D. of the application form and attachments referenced in Section III.L. 12 (if included). Compliance is certified as of the date this application is submitted to the Florida Department of Environmental Regulation as required in Rule 62-213.420(1)(a) F.A.C.

**Attachment PFLFS_14.txt
Lauderdale Plant
Compliance Statement**

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.



Signature, Responsible Official

5-28-96

Date

Proposed Schedule for submittal of periodic compliance statements to the Department:

FPL will submit an annual compliance statement to the Department's Southeast District Office concurrently with the submittal of the Annual Operating Report for this facility.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 1

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Combined Cycle Unit 4A -one CT exhausting through a HRSG.
2. Emissions Unit Identification Number: 035 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): Y
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): There are 4 identical combined-cycle combustion turbines at Lauderdale. Each CT is connected to an electrical generator, and each CT generates heat which produces steam in a heat recovery steam generator (HRSG). The steam from 2 HRSG's is then sent to a steam turbine-generator for additional electric power. The 4 combined-cycle CT's have a current annual aggregate heat input limitation of 54,129,421 mmBtu, and an aggregate heat input limitation of 14,426,844 mmBtu while firing distillate oil.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): Steam or Water Injection
2. Control Device or Method Code: Steam of Water Injection

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 05/23/93
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Westinghouse Model Number: MW501F
4. Generator Nameplate Rating: 231.25 MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 1775.62 mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The maximum heat input rate given in question #1 above is for natural gas fuel at 75 degrees F. The maximum heat input rate while firing light distillate oil is 1646.9 mmBtu/hour at 75 degrees F.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 1

<p>40 CFR 60.332 (a)(1) 40 CFR 60.332 (b) 40 CFR 60.332(f) 40 CFR 60.332(k) 40 CFR 60.333 (b) 40 CFR 60.334 (b)(1)(when firing oil) 40 CFR 60.334 (b)(2)(when firing natural gas) 40 CFR 60.334(a) 40 CFR 60.334(c) 40 CFR 60.335 40 C.F.R. 60.11(a) 40 C.F.R. 60.11(b) 40 C.F.R. 60.11(c) 40 C.F.R. 60.11(d) 40 C.F.R. 60.11(e)(2) 40 C.F.R. 60.12 40 C.F.R. 60.13(a) 40 C.F.R. 60.13(d)(1) 40 C.F.R. 60.13(e) 40 C.F.R. 60.13(h) 40 C.F.R. 60.7(b) 40 C.F.R. 60.7(f) 40 C.F.R. 60.8(c) 40 C.F.R. 60.8(e) 40 C.F.R. 72.20(a) 40 C.F.R. 72.20(b) 40 C.F.R. 72.20(c) 40 C.F.R. 72.21(a) 40 C.F.R. 72.21(b) 40 C.F.R. 72.21(d) 40 C.F.R. 72.22(a) 40 C.F.R. 72.22(c) 40 C.F.R. 72.23 40 C.F.R. 72.24(a) 40 C.F.R. 72.30(a) 40 C.F.R. 72.30(b)(2) 40 C.F.R. 72.30(c) 40 C.F.R. 72.30(d) 40 C.F.R. 72.32 40 C.F.R. 72.33(b) 40 C.F.R. 72.33(c) 40 C.F.R. 72.33(d) 40 C.F.R. 72.40(a) 40 C.F.R. 72.40(b) 40 C.F.R. 72.40(c) 40 C.F.R. 72.40(d) 40 C.F.R. 72.51 40 C.F.R. 72.90</p>	<p>40 C.F.R. 72.9(a)(1)(iii) 40 C.F.R. 72.9(a)(1)(i) 40 C.F.R. 72.9(a)(2) 40 C.F.R. 72.9(b) 40 C.F.R. 72.9(c)(1) 40 C.F.R. 72.9(c)(2) 40 C.F.R. 72.9(c)(3)(iii) 40 C.F.R. 72.9(c)(4) 40 C.F.R. 72.9(c)(5) 40 C.F.R. 72.9(d) 40 C.F.R. 72.9(e) 40 C.F.R. 72.9(f) 40 C.F.R. 72.9(g)(4) 40 C.F.R. 73.33 40 C.F.R. 73.35 40 C.F.R. 75 Appendix A-1 40 C.F.R. 75 Appendix A-2 40 C.F.R. 75 Appendix A-3 40 C.F.R. 75 Appendix A-4 40 C.F.R. 75 Appendix A-5 40 C.F.R. 75 Appendix A-6 40 C.F.R. 75 Appendix B 40 C.F.R. 75 Appendix C-1 40 C.F.R. 75 Appendix C-2 40 C.F.R. 75 Appendix D 40 C.F.R. 75 Appendix F 40 C.F.R. 75 Appendix G-2 40 C.F.R. 75 Appendix H 40 C.F.R. 75.10(a)(1) 40 C.F.R. 75.10(a)(2) 40 C.F.R. 75.10(a)(3)(i) 40 C.F.R. 75.10(a)(4) 40 C.F.R. 75.10(b) 40 C.F.R. 75.10(c) 40 C.F.R. 75.10(f) 40 C.F.R. 75.10(g) 40 C.F.R. 75.11(d) 40 C.F.R. 75.12(a) 40 C.F.R. 75.12(b) 40 C.F.R. 75.13(b) 40 C.F.R. 75.14(c) 40 C.F.R. 75.20(a)(5) 40 C.F.R. 75.20(b) 40 C.F.R. 75.20(c) 40 C.F.R. 75.20(g) 40 C.F.R. 75.21(a) 40 C.F.R. 75.21(b) 40 C.F.R. 75.21(c)</p>	<p>40 C.F.R. 75.21(d) 40 C.F.R. 75.21(e) 40 C.F.R. 75.21(f) 40 C.F.R. 75.22 40 C.F.R. 75.24 40 C.F.R. 75.30(a)(3) 40 C.F.R. 75.32 40 C.F.R. 75.33 40 C.F.R. 75.36 40 C.F.R. 75.4(a)(4)(i) 40 C.F.R. 75.4(b) 40 C.F.R. 75.4(g) 40 C.F.R. 75.5 40 C.F.R. 75.53(a) 40 C.F.R. 75.53(b) 40 C.F.R. 75.53(c) 40 C.F.R. 75.53(d)(2) 40 C.F.R. 75.54(a) 40 C.F.R. 75.54(b) 40 C.F.R. 75.54(d) 40 C.F.R. 75.55(c) 40 C.F.R. 75.56 40 C.F.R. 75.60(a) 40 C.F.R. 75.60(b) 40 C.F.R. 75.60(c)(3) 40 C.F.R. 75.61(a)(1) 40 C.F.R. 75.61(a)(5) 40 C.F.R. 75.62 40 C.F.R. 75.63 40 C.F.R. 75.64(a) 40 C.F.R. 75.64(b) 40 C.F.R. 75.64(c) 40 C.F.R. 75.64(d) 40 C.F.R. 75.65 40 C.F.R. 75.66(a) 40 C.F.R. 75.66(b) 40 C.F.R. 75.66(c) 40 C.F.R. 75.66(d) 40 C.F.R. 75.66(g) 40 C.F.R. 75.66(h) 40 C.F.R. 77.3 40 C.F.R. 77.5(b) 40 C.F.R. 77.6 DNRP 27-173(a) (state only) DNRP 27-173(c) (state only) DNRP 27-173(d) (state only) DNRP 27-173(e) (state only) DNRP 27-173(f) (state only)</p>	<p>DNRP 27-173(g)(1) (state only) DNRP 27-173(g)(4) (state only) DNRP 27-173(g)(5) (state only) DNRP 27-173(g)(6) (state only) DNRP 27-184 (state only) DNRP 27-188 (state only) DNRP 27-189 (state only) F.A.C. 62-204.800 (7)(d) (state only) F.A.C. 62-204.800 (b)37. (state only) F.A.C. 62-204.800(12) (state only) F.A.C. 62-204.800(13) (state only) F.A.C. 62-204.800(14) (state only) F.A.C. 62-210.650 F.A.C. 62-210.700 (1) F.A.C. 62-210.700 (4) F.A.C. 62-210.700 (6) F.A.C. 62-214.300 F.A.C. 62-214.320 F.A.C. 62-214.330 F.A.C. 62-214.340 F.A.C. 62-214.350(2) F.A.C. 62-214.350(3) F.A.C. 62-214.350(6) F.A.C. 62-214.370 F.A.C. 62-214.430 F.A.C. 62-296.320 (4)(b) (state only) F.A.C. 62-296.800(2)(a)37 (as applicable) (state only) F.A.C. 62-297.310(1) F.A.C. 62-297.310(3) F.A.C. 62-297.310(4)(a)1. F.A.C. 62-297.310(4)(b) F.A.C. 62-297.310(4)(c) F.A.C. 62-297.310(4)(d) F.A.C. 62-297.310(5) F.A.C. 62-297.310(6)(a) F.A.C. 62-297.310(6)(c) F.A.C. 62-297.310(6)(d) F.A.C. 62-297.310(6)(e) F.A.C. 62-297.310(6)(f) F.A.C. 62-297.310(6)(g) F.A.C. 62-297.310(7)(a)1. F.A.C. 62-297.310(7)(a)3. F.A.C. 62-297.310(7)(a)4.b. F.A.C. 62-297.310(7)(a)5. F.A.C. 62-297.310(7)(a)7. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(7)(c) F.A.C. 62-297.310(8)</p>
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :

1. Identification of Point on Plot Plan or Flow Diagram: CT HRSG. stack 4A
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): NA
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 150 ft
7. Exit Diameter: 18 ft
8. Exit Temperature: 330 °F
9. Actual Volumetric Flow Rate: 2422969 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.168 North: 2883.481
14. Emission Point Comment (limit to 200 characters): The flow rate given is the design flow rate while firing light distillate oil at 40 degrees fahrenheit. The design flow rate while firing natural gas at 40 degrees fahrenheit is 2,419,751 acfm.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :/ Emission Unit #: / Segment #: /

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Light distillate oil burned in combined cycle CT 4A
2. Source Classification Code (SCC): 2-01-009-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 12.11
5. Maximum Annual Rate: 106084
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.3
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Max.annual rate reflects the annual heat input limitation of 14,426,844 mmBtu at 75 degrees Fahrenheit of operation on #2 oil, which is a permit limitation in the current PSD permit.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID : / Emission Unit #: / Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Natural gas burned in combined cycle CT 4A
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: million cubic feet burned
4. Maximum Hourly Rate: 1.69
5. Maximum Annual Rate: 14814
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.0031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Natural gas and distillate oil may be co-fired, primarily during fuel switching (from oil to gas or from gas to oil.). The maximum annual rate is based on 100% load for 8760 hrs at 75 degrees F.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: / Emission Unit #: /

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	EL
NOx	028	NA	EL
CO	NA	NA	EL
PM	NA	NA	EL
PM10	NA	NA	EL
VOC	NA	NA	EL
SAM	NA	NA	EL
FL	NA	NA	EL
H114	NA	NA	EL
H021	NA	NA	EL
H113	NA	NA	NS
H133	NA	NA	NS
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: / Pollutant #: /

Pollutant Detail Information

1. Pollutant Emitted: Carbon Monoxide	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	100 lbs/hr 438 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor:	100 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): In current PSD permit. Calculations: - 100 lb/hr on oil (permit limit) - 89 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: (100 lb/hr/CT)*(8760 hr/yr)/(2000 lb/ton) = 438 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: / Emission Unit #: / Pollutant #: /
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 100 Units : lb/hour
4. Equivalent Allowable Emissions: 100 lbs/hr 438 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if oil is fired for more than 400 hours during the previous 12 months (Reference permit PSD-FL-145).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 138 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: / Emission Unit #: / Pollutant #: /
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 89 Units : lb/hour
4. Equivalent Allowable Emissions: 89 lbs/hr 389.8 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if natural gas operation is greater than 400 hours during the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: / Emission Unit #: / Pollutant #: /
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1489 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1489 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit for CO. Also, the tpy given in field 4 reflects the "without ductburners" condition, and represents emissions from 4 combustion turbines.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides
2. Total Percent Efficiency of Control: 70 %
3. Potential Emissions: 422 lbs/hr 1848 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 422 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters): Oil Calculation: 422 lb/hour x 8760hours/year = 3,696,720 lb/year 3696720 / 2,000 lb/ton = 1848.4 tpy for one combustion turbine Natural Gas Calculation: 264 lb/hour x 8760 hours/year = 2,312,640 lb/year 2,312,640 / 2,000 lb/ton = 1156.3 tpy for one combustion turbine
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 2

Basis For Allowable Emission #: 2

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 264 Units : lb/hour
4. Equivalent Allowable Emissions: 264 lbs/hr 1156 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20)
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 135 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

Information for Facility_ID: / Emission Unit #: / Pollutant #: 2
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 422 Units : lb/hour
4. Equivalent Allowable Emissions: 422 lbs/hr 1848 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20) if oil operation > 400 hours in previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 2
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4868 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 4868 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit currently in effect. In addition, the tpy value given in field 4 is reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted:	Particulate Matter - Total
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	58 lbs/hr 254 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	58 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

Information for Facility_ID: / Emission Unit #: / Pollutant #: 3
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 3
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: Not required for natural gas firing.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 3
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: None
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted: Particulate Matter - PM10	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 58 lbs/hr	254 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor: 58 Units lbs/hr	
Reference: Permit #PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5	
8. Calculation of Emissions (limit to 600 characters): -58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: (58 lb/hr/CT)*(8760 hr/yr)/(2000) = 254.04 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 10
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 The information given in fields 3 and 4 for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 10
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/year
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 181 The information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 10
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: None required for natural gas firing
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 129 The information given in fields 3 and 4 for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: / Pollutant #: 4

Pollutant Detail Information

1. Pollutant Emitted: Sulfur Dioxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 538 lbs/hr 1571 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 538 Units lbs/hr Reference: Site Certification
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): -From permit: a maximum of 0.3 % sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions -Permit limit for SO2: 538 lbs/hr/CT for oil and 4.9 lb/hr/CT for gas -Annual permit limit: 1,582 TPY for all CT's -Old permit limit for SO2 on natural gas 0.97 lb/hr/CT OIL: ([538 lb/hr/CT]/[0.3%])*(0.2%)*(8760 hr/yr)/(2000) = 1571 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 4
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 538 Units : lb/hr
4. Equivalent Allowable Emissions: 538 lbs/hr 1571 tons/yr
5. Method of Compliance: Average composite of as-received samples - sulfur content of distillate oil using ASTM D-2880-71 or equivalent.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 4
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.9 Units : lbs/hr
4. Equivalent Allowable Emissions: 4.9 lbs/hr 21.46 tons/yr
5. Method of Compliance: Fuel analysis - For natural gas the customized fuel monitoring schedule is used. Please refer to the attached file Fuelmon.pcx for additional information.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 4
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1582.8 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1582.8 tons/yr
5. Method of Compliance: Annual Operating Report (from fuel analysis).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information presented on this page represents the annual tpy limit for SO2 for this emission unit.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: / Pollutant #: 5

Pollutant Detail Information

1. Pollutant Emitted:	Volatile Organic Compounds	
2. Total Percent Efficiency of Control:		%
3. Potential Emissions:	7.8 lbs/hr	34.2 tons/yr
4. Synthetically Limited? (Yes/No):	Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr	
6. Emission Factor:	7.8	Units lbs/hr
Reference:	Permit # PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0	
	<input type="checkbox"/> 0	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-7.8 lb/hr on oil (permit limit) -1.3 lb/hr on gas (permit limit) OIL: $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 34.2 \text{ TPY/CT}$ (8760 hours of operation) $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 8.5 \text{ TPY/CT}$ (25% Cap. factor)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 7.8 Units : lb/hour
4. Equivalent Allowable Emissions: 7.8 lbs/hr 34.2 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if distillate oil is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The potential emission rates are based on oil firing (worst-case). The tons per year limit given above is based on an individual CT operating at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.3 Units : lb/hour
4. Equivalent Allowable Emissions: 1.3 lbs/hr 5.7 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if natural gas is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 5
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 50 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 50 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): This page represents the annual VOC tpy limitation. The limit above represents the 75 deg. F condition. Information in #4 above reflects both distillate oil and natural gas operation for the 4 CTs.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 6

Pollutant Detail Information

1. Pollutant Emitted: Sulfuric Acid Mist
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 67 lbs/hr 196 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 67 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): -From the PSD permit and Site Certification: a maximum of 0.3 percent sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions - Annual permit limit: 196 TPY for all 4 CTs -67 lb/hr on oil (permit limit) -0.042 lb/hr on gas (permit limit) OIL: ([67 lb/hr/CT]/[0.3%])*(0.2%)*(8760 hr/yr)/(2000) = 195.64 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): This pollutant is requested to be deleted from the permit per FDEP Policy dated February 8, 1996. See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 6
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :
4. Equivalent Allowable Emissions: lbs/hr tons/yr
5. Method of Compliance:
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 79 This limit is requested to be deleted. See Attachment PFLU1_12.txt for details.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: / Pollutant #: 7

Pollutant Detail Information

1. Pollutant Emitted: Mercury
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 0.0192 lbs/hr 0.084 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.0192 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters): Current Permit Limits: -0.0049 lb/hr on oil -0.0192 lb/hr on gas OIL: $(0.0049 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 0.005 \text{ TPY/CT (25\% Cap. factor)}$ GAS: $(0.0192 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.084 \text{ TPY/CT (8760 hours of operation)}$
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

Information for Facility_ID: / Emission Unit #: / Pollutant #: 7

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 1 Pollutant #: 8

Pollutant Detail Information

1. Pollutant Emitted:	Fluoride
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0535 lbs/hr 0.23 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0535 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current permit limits:	
-0.0535 lb/hr on oil	
-NA on gas	
OIL:	
(0.0535 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.234 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: / Emission Unit #: / Pollutant #: 8
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: / Pollutant #: 9

Pollutant Detail Information

1. Pollutant Emitted:	Beryllium
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0041 lbs/hr 0.018 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	0.0041 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current Permit Limits:	
-0.0041 lb/hr on oil	
-NA on gas	
OIL:	
(0.0041 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.018 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: / Emission Unit #: / Pollutant #: 9
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 1

Visible Emissions Limitation #: 2

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation
5. Visible Emissions Comment (limit to 200 characters): Oil Firing: Rule 62-210.700(1) allows excess emissions up to 2 hr / 24 hr for startup, shutdown and malfunction.

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 1
Continuous Monitor #: 2

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Carbon dioxide	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer:	Milton Roy	
Model Number:	42D	Serial Number: N4C0317T
5. Installation Date (DD-MON-YYYY):	11/22/94	
6. Performance Specification Test Date (DD-MON-YYYY):	11/14/95	
7. Continuous Monitor Comment (limit to 200 characters):	The CO2 monitor provides % O2 data to the NOx monitor per 40 CFR 75 Appendix E, eqn E-3. CO2 is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the absence of a flow monitor.	

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 1
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:			
2. Pollutant(s):		Nitrogen Oxides	
3. CMS Requirement Code(R/O):		RULE	Rule / Other
4. Monitor Information:			
Manufacturer: TECO		Serial Number: 42D-49813-284	
Model Number: 42			
5. Installation Date (DD-MON-YYYY): 11/22/94			
6. Performance Specification Test Date (DD-MON-YYYY): 11/14/95			
7. Continuous Monitor Comment (limit to 200 characters): The CO2 monitor provides % O2 data to the NOx monitor per with 40 CFR 75 Appendix E, eqn E-3.			

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : / Emission Unit # : /

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM	C		
SO2	C		
NO2	C		
4. Baseline Emissions:			
PM	lbs/hr	195	tons/yr
SO2	lbs/hr	2243	tons/yr
NO2	2456 tons/yr		

5. PSD Comment (limit to 200 characters):

Lauderdale underwent PSD review during the Repowering licensing in 1989-90.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

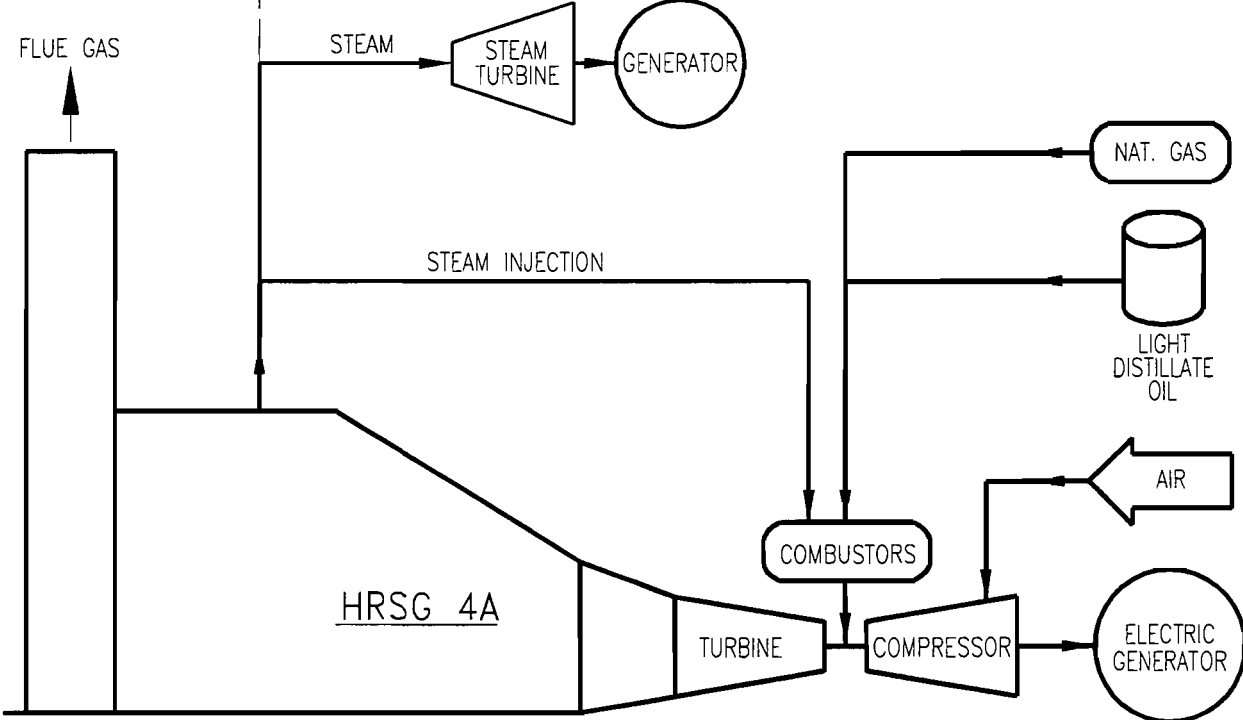
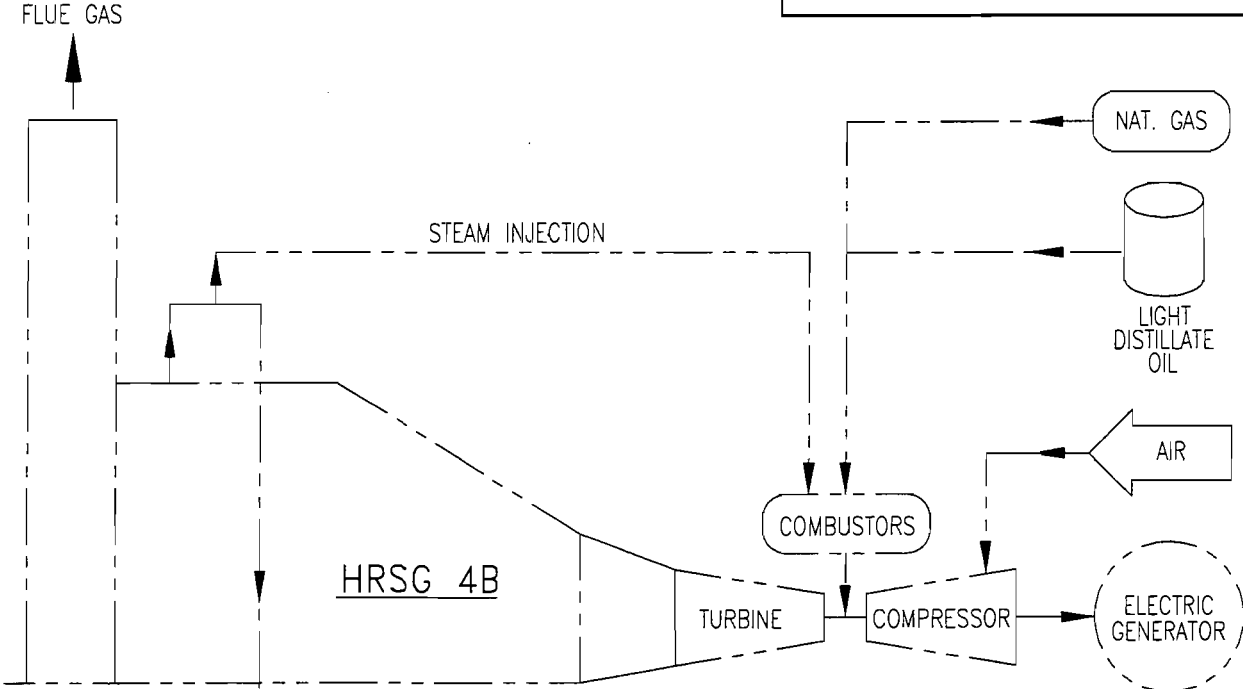
Information for Facility-ID : 1 Emission Unit # : 1

Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU1_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU1_2.txt, Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PFLU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU1_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU1_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU1_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: PFLretx.txt Not Applicable



TECHNICAL ACCEPTANCE	ORG	BY	DATE
	ENGINEERING ORGANIZATION		
WALKDOWN INFORMATION	ORG	BY	DATE
	AS-BUILT INFORMATION		

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FLO05462	TITLE EMISSION UNIT FLOW DIAGRAM COMBUSTION TURBINE UNIT 4A ATTACHMENT NO. EU1
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FLO05462	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PFL4-M0102-YY	SHEET	1 OF 1	REV	0
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Attachment PFLU1_2.txt

Fuel Analysis
Natural Gas Analysis (typical)³

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
Specific gravity(@ 60° F)	0.887	none
Heat content (Btu/cu ft)	950 - 1124	none
% sulfur (grains/CCF)	0.43 ¹	1 gr/ccf ²
% nitrogen (by volume)	0.8	none
% ash	negligible	none

*Note: The values listed are "typical" values based upon information supplied to FPL by Florida Gas Transmission (FGT). However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed. biocide is added.

(1) Data from laboratory analysis

(2) Data from PSD permit revision dated July 19, 1993

(3) The values are "typical" based upon the following:

- Information gathered by FPL through laboratory analysis, and
- FPL's fuel purchasing specifications. It should be noted that the analytical results obtained from grab samples taken at any given time may vary from those listed.

Attachment PFLU1_2.txt**Fuel Analysis
No. 2 Distillate oil (typical)⁴**

<u>Parameter</u>	<u>Typical value</u>
API gravity (@ 60 F)	35.0 ²
Heat content (Btu/bbl)	19,130 ³
% sulfur	0.2 - 0.3 ¹
% nitrogen	no specification
% ash	<0.01 ²

Footnotes:

- (1) Data taken from FPL fuel specifications.
- (2) Data taken from laboratory analysis.
- (3) Data taken from the Lauderdale Site Certification Application
- (4) The values are "typical" based upon the following:
 - Information gathered by FPL through laboratory analysis, and
 - FPL's fuel purchasing specifications. It should be noted that the analytical results obtained from grab samples taken at any given time may vary from those listed.

Attachment PFLU1_2.txt
Fuel Analysis - Fuel Additive

When firing light distillate oil, the combustion turbines require a lubricity enhancer to be added to the oil. This material is added at a rate of 1/2 gallon per 1,000 barrels of fuel oil. Below is typical analytical information FPL has gathered for the current additive. Note that the information given is for the lubricity enhancer that is currently utilized at the facility. FPL reserves the right to change the additive used at any time.

<u>Parameter</u>	<u>Typical Value</u>
Relative density	23.2 (API gravity)
Heat content	17,676 btu/lb
% sulfur	0.07
% nitrogen	0.13
% ash	0.03

*Note: The values listed are "typical" values based upon analysis performed by the FPL Central Laboratory on 6/10/94. However, analytical results from grab samples of fuel additive taken at any given point in time may vary from those listed. As oil is received a stabilizer and a biocide is added.

Attachment PFLU1_2.txt

Fuel Analysis
Jet A Distillate oil (typical)⁴

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F)	41.8 ³	37 - 51 ¹
Heat content (Btu/bbl)	19,673 ³	18,400 minimum ¹
% sulfur	0.2 - 0.3 ²	0.3 maximum ²
% nitrogen		none
% ash	<0.001 ¹	0.001 ¹

Footnotes:

- (1) Data taken from FPL fuel specifications.
- (2) CT's are limited to 0.3 percent maximum, 0.2 percent annual average sulfur content.
- (3) Data taken from laboratory analysis.

Attachment PFLU1_3.txt
Detailed Description of Control Equipment

1. Combustion Turbine Emission Units

Each combustion turbine (CT) is equipped with a steam injection system for the control of NOx emissions. The intermediate section (IP) of the Heat Recovery Steam Generator (HRSG) is the predominant supplier of NOx injection steam. However, during operation of the CT on distillate fuel, additional steam from the main steam section of the HRSG is required to control NOx.

The steam flow to each CT is measured by a pitot tube which has an accuracy of +/- 1% of the steam flow quantity. The fuel consumption of each CT is measured by an orifice plate which compensates for temperature and pressure. The orifice plate is also accurate to +/- 1% of the fuel flow.

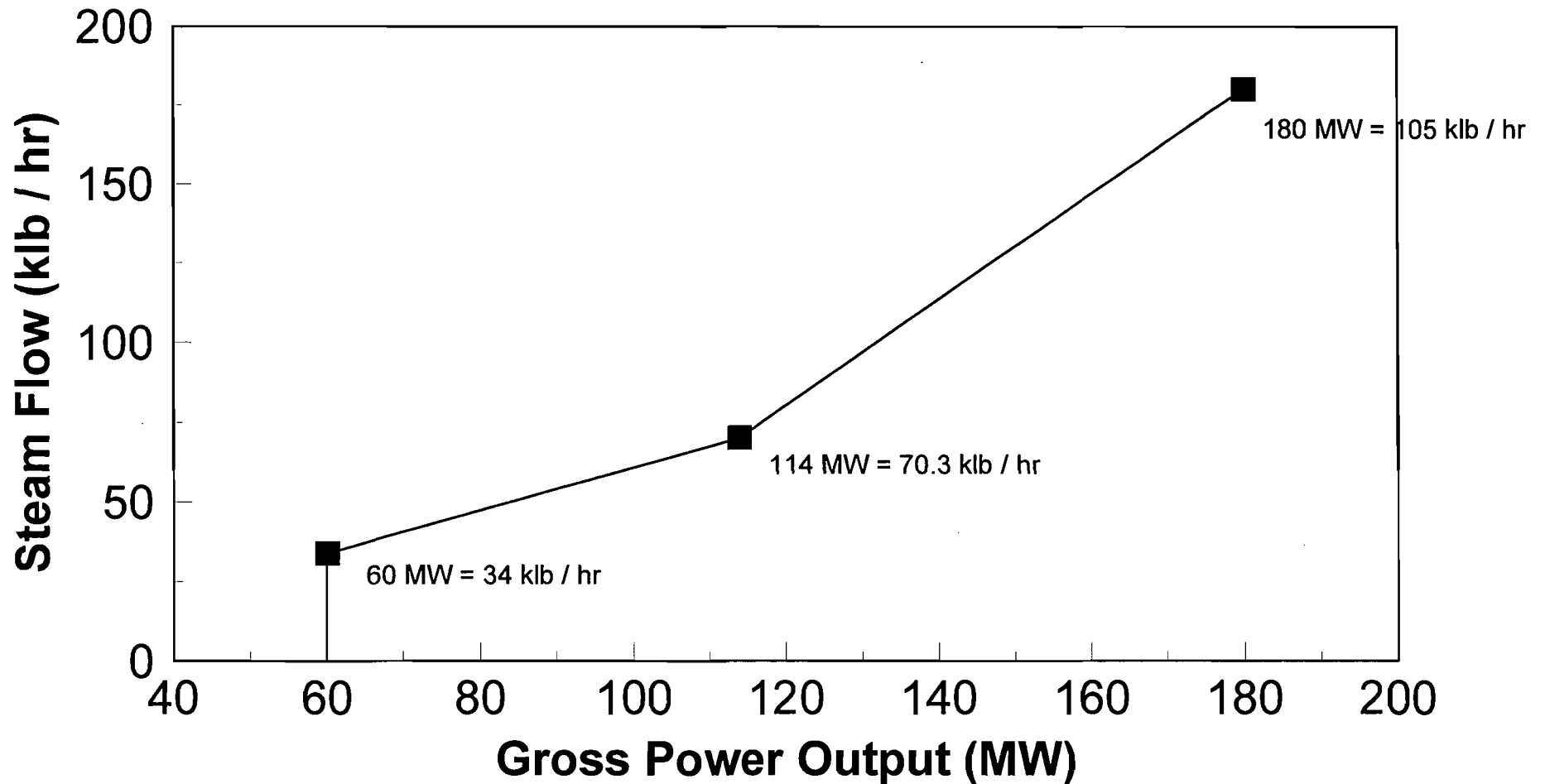
The pitot tube and the orifice plate each generate a milliamp signal during operation. These signals are sent to the power plant's main Distributive Control System (DCS). The DCS calculates and records the steam-to-fuel ratio at all times to the setpoints which were established during initial startup testing for the combined-cycle units.

If a condition develops in which the steam-to-fuel ratio varies more than 1% from the established curve, an audible alarm alerts the plant control center operator, who can then initiate actions to correct the situation.

On the following pages are two graphs relating heat input to ambient temperature and steam flow to power output (for NOx control) for each of the 4 combustion turbines. The graphs relate steam flow to megawatt output, and define where the steam flow needs to be, at a given megawatt production, in order to control NOx to below permitted values.

Westinghouse 501F - FPL Lauderdale Plant

Steam Flow vs. Gross Power Output

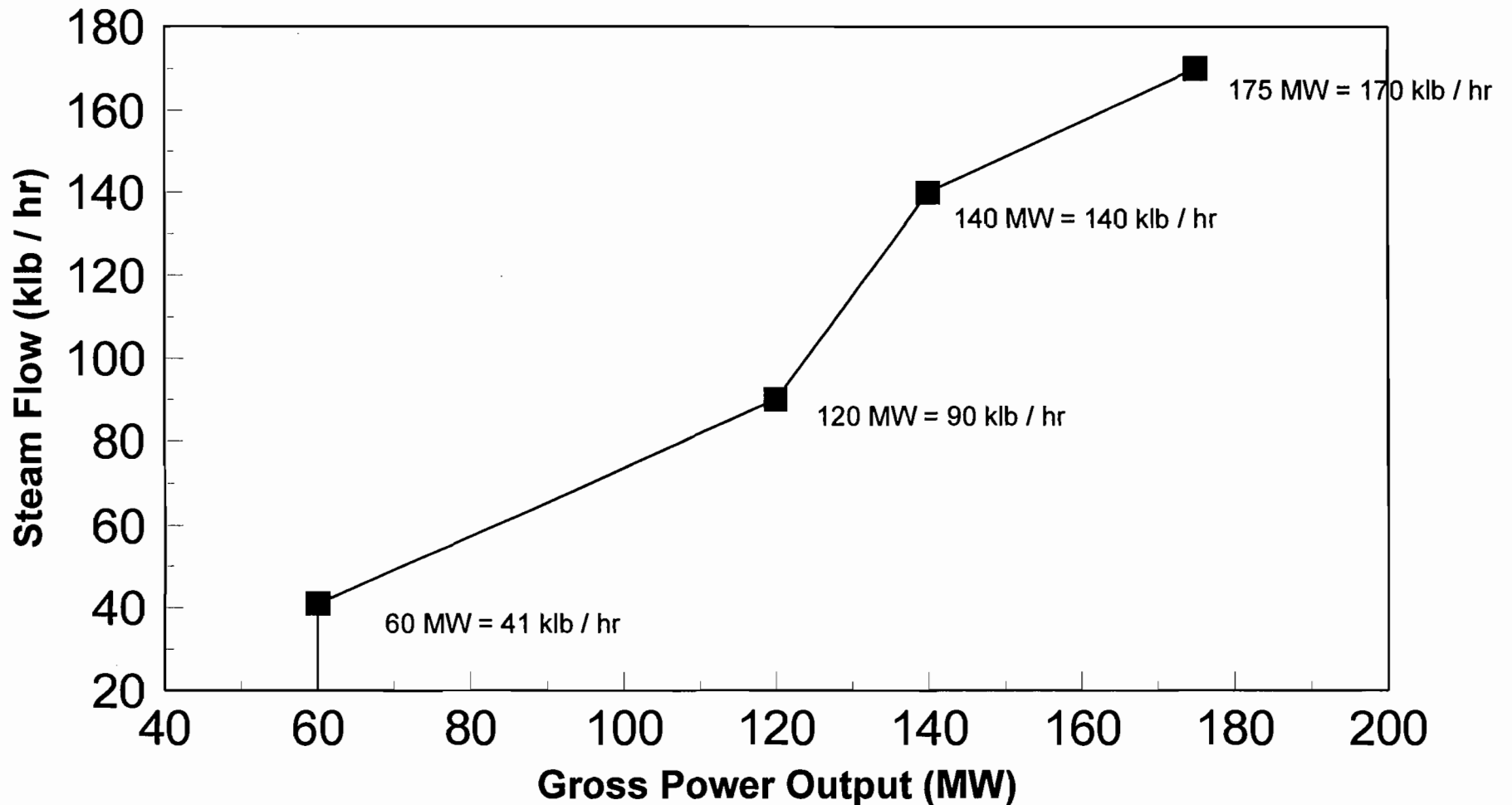


501fgas.drw

Natural Gas Operation as of May, 1993. Curve may be modified based on future FDEP-approved testing

Westinghouse 501F - FPL Lauderdale Plant

Steam Flow vs. Gross Power Output



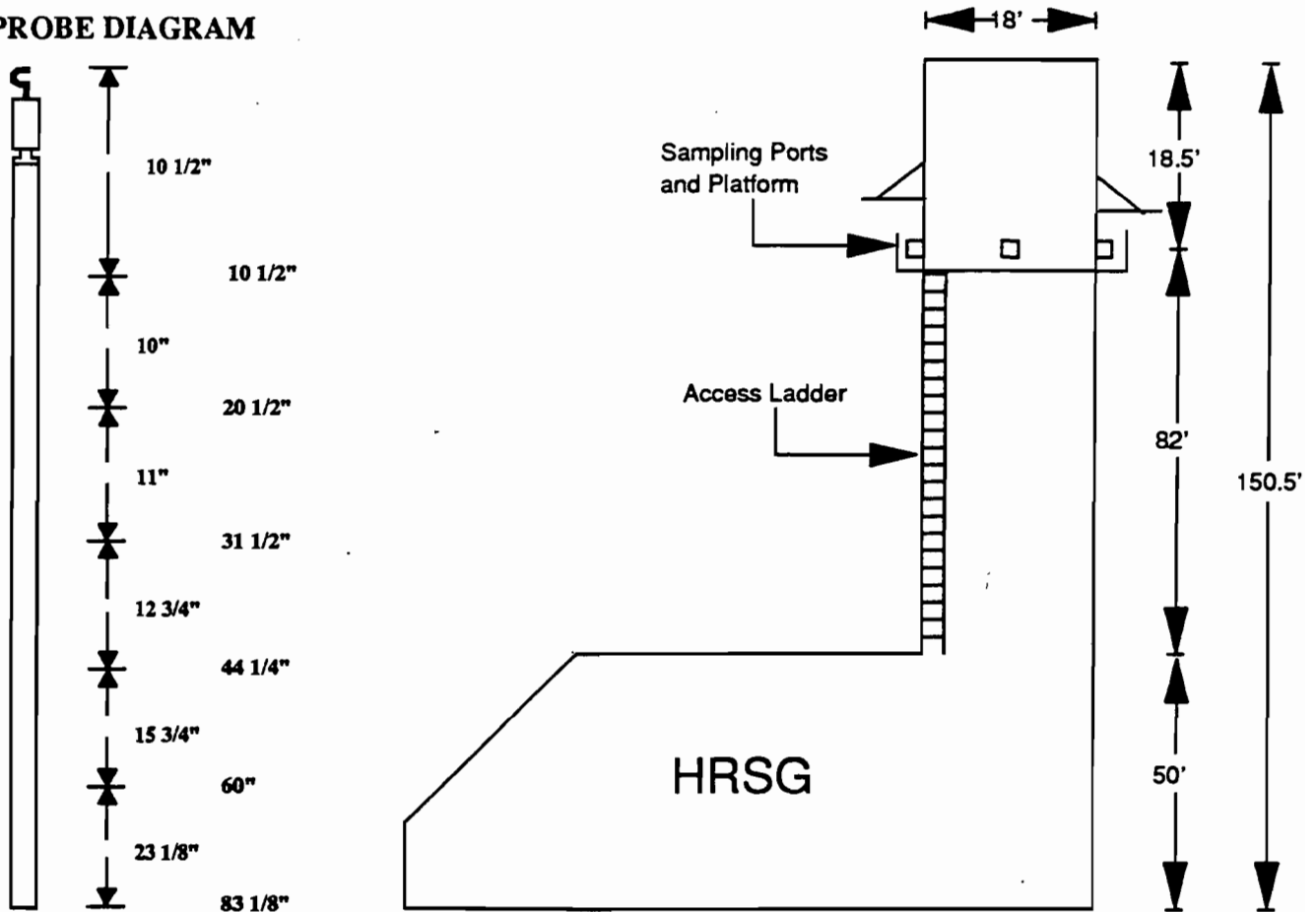
FLORIDA POWER & LIGHT CO. STACK SAMPLING FACILITIES FORT LAUDERDALE SITE

**Gas & Distillate Oil Fired Combined Cycle
Units 4 & 5**

STACK SPECIFICATIONS

SAMPLING DIAMETER: 216 in.
 SAMPLING AREA: 254.5 sq. ft.
 SAMPLING PORT DEPTH: 6.0 in.
 No. OF PORTS: 4, 4" diameter
 No. OF POINTS PER TRAVERSE: 6
 TOTAL No. OF POINTS : 24
 SAMPLING TIME PER POINT: 2.5 min.
 TOTAL SAMPLING TIME: 60.0 min.
 NOTE: DRAWING IS NOT TO SCALE

PROBE DIAGRAM



Probe support above each port is provided by a 15' channel iron beam with a trolley system. Lighting and 15 amp 110 V standard plugs are provided on the platform. Additional power is available at the base of the stack.

Attachment PFLU1_6.txt

Procedures for Startup and Shutdown - Combustion Turbines

The combustion turbines utilize steam injection for NO_x control. Upon startup, one CT is brought on line and up on load as quickly as possible in order to begin producing injection steam as soon as possible and thereby minimize periods of excess NO_x emissions. Steam injection also has some effect on opacity, so that if the steam injection system has problems, opacity may also be affected.

Per 40 CFR 60.334(a), the steam-to-fuel ratio for each CT is continuously monitored via the plant's Distributed Control System (DCS) (a computer system). This ratio is continuously compared to the values on the NO_x steam injection curves (refer to Attachment PFLU1_3.doc). The NO_x steam injection curves were prepared by performing stack tests while varying the steam-to-fuel ratios, in order to achieve repeatable NO_x emission rates within permitted values.

In addition, per 40 CFR 75, a NO_x continuous emission monitor (CEM) has been installed on this unit. Note that this unit meets the definition of a "gas-fired unit" under 40 CFR 72.2, and is thus not required to install an SO₂ monitor or an opacity monitor. This facility uses the protocol in 40 CFR 75 Appendix D to monitor for SO₂.

If excess emissions are encountered at any time during startup or normal operation (i.e. the steam-to-fuel ratio is exceeded), an audible alarm sounds in the control room, alerting the operator that excess NO_x emissions are occurring. The operator immediately begins corrective actions (e.g. verify validity of alarm and adjusting the steam flow and/or fuel flow), working within the physical limitations of the combustion turbine and heat recovery steam generator (HRSG) in order to bring the steam-to-fuel ratio into compliance as soon as possible. If the steam-to-fuel ratio is not in compliance within 2 hours of initial startup, load on the CT may be reduced to a point where there are no excess NO_x emissions.

Shutdown of the combustion turbines does not typically cause excess emissions. In any event, the DCS system continuously monitors the steam-to-fuel ratio, and alerts plant operators to any exceedances.

Each control center operator is required to undergo extensive training on the proper operational procedures for the combustion turbines and heat recovery steam generators. Part of this training addresses current permit limits and corrective actions to be undertaken should a malfunction or other situation occur which causes excess emissions.

Attachment PFLU1_10.txt

Alternative Methods of Operation - Combustion turbines

Each combustion turbine will operate primarily on natural gas fuel, with light distillate oil as a backup fuel. Each CT will be operated independently of any other, and can operate from 0 to 1775.62 MMBtu/hour on gas fuel and 0 to 1646.9 MMBtu/hour on distillate oil. (Both heat input rates are given at 75 degrees F). If and when duct burners are installed in the heat recovery steam generators (HRSG's), the CT's may operate with or without the ductburners as needed. If the ductburners are installed, the maximum heat input to the CT will be reduced by an amount equal to the heat input reallocated to the ductburners, so that the total heat input is less than 1775.62 mmBtu / hour at 75 degrees F. Note that the ductburners (if installed) will only be operated while the CT is firing natural gas fuel; the ductburners will not be used while the CT is firing distillate oil fuel.

The current plant air construction permit (AC 06-179848), PSD permit (PSD-FL-145) and Site Certification (PA-89-6636) limit emissions of individual pollutants on an annual basis in terms of tons per year for 4 CT's, and on an hourly basis in terms of lbs/hour/CT. These permit limits give FPL the flexibility to operate each of the 4 CT's, so long as neither the annual aggregate limits nor the hourly limits for each CT are exceeded. An analogous situation exists for each of the regulated pollutants in the permits, for example NOx. The four combustion turbines have an annual aggregate NOx limit of 4,868 tpy (without ductburners installed; 4,716 tpy with ductburners installed). This annual limit is also representative of an approximate 87% capacity factor for the 4 CT's. However, any individual CT may operate 8,760 hours per year, as long as neither the aggregate annual NOx limit nor the hourly NOx limits are exceeded.

Compressor washes are periodically performed on the combustion turbines. There are 2 types of compressor washes: water washes and detergent washes. Water washes are performed at a frequency based on compressor performance characteristics (usually once per week) and consist of injecting water at approximately 26 gpm for 10 to 60 minutes. Detergent washes consist of bringing the combustion turbine off-line and 1) at spin-speed injecting a detergent solution, 2) conducting a soak and drain while the CT is on turning gear (rotating slowly) for 20 minutes, 3) performing a water wash at spin-speed for approximately 10 minutes, 4) performing a second soak and drain, 5) performing a spin-dry. The detergent wash is also performed based on compressor performance and operational status. The type of detergent mix used will depend on the frequency of compressor cleaning evolutions, the type of compressor fouling experienced, and the extent to which fouling occurs.

The four combustion turbines have an annual aggregate heat input limit of 54,129,421 mmBtu for all fuels combined. This heat input is approximately equivalent to an 87% capacity factor for the 4 CT's. The four combustion turbines also have an annual aggregate heat input limit of 14,426,844 mmBtu/year (@75°F) for firing distillate oil, which is approximately equivalent to a 25% capacity factor. However, any individual CT may operate 8,760 hours per year, as long as the aggregate annual heat input limit is not exceeded.

Emissions from the combustion turbines are affected by ambient temperature, type of fuel, and megawatt load on the unit. Ambient temperature is a factor because at cooler ambient temperatures the air is more dense; therefore more air can be forced through the unit, with a correspondingly higher fuel usage (and therefore higher emissions) than at higher ambient temperatures. Higher megawatt production is also possible at lower ambient temperatures.

The type of fuel combusted affects emissions due to the variability of contaminants contained in the fuel and differences in the combustion process for different fuels. Please refer to Emission Unit Supplemental Information Question #2 for fuel analytical information.

Attachment PFLU1_12.txt

Identification of Additional Applicable Requirements

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g. emission limitations and consent orders).

(The following items through number 20 are derived from the facility's existing PSD permit).

BACT Analysis - Four items were identified as actions to be undertaken by FPL in order to satisfy BACT requirements:

1. NO_x emissions limited to 264 lb/hour while firing natural gas in the CT's and 422 lb/hour while firing distillate oil in the CT's. *Compliance is demonstrated annually using EPA Method 20 and the combustion turbines' steam-to-fuel ratio.*
2. Demolition of existing steam generators at the Lauderdale site. *Demolition was completed on those units in 1993. (This item is requested to be removed from the permit)*
3. Installation of low-NO_x burners at nearby Port Everglades plant units 3 and 4. *Installation of the new low-NO_x burners has been completed. (This item is requested to be removed from the permit)*
4. Restriction on the use of distillate oil in the CT's to 25% capacity factor. *FPL tracks the usage of distillate oil in the CT's on an hours-per-year basis.*

PSD-FL-145 Permit

1. Heat input to each CT is not to exceed 1775.62 mmBtu/hour while firing natural gas or 1646.9 mmBtu/hour while firing distillate oil. *FPL tracks heat input on a continuous basis to each CT. Heat input to each ductburner shall not exceed 90.62 mmBtu/hour. Ductburners were never installed at Lauderdale. If and when they are installed, the heat input from the CT's will be limited to 1685 mmBtu/hour. Heat input will also be tracked on a continuous basis for the ductburners if they are ever installed. If the ductburners are installed, appropriate heat input will be subtracted from the 1775.62 mmBtu / hour / CT and reallocated to the ductburners.*

2. Each CT can operate continuously (8760 hours per year) provided that the annual heat input to the four CT's does not exceed 54,129,421 mmBtu and the annual heat input attributable to distillate oil firing does not exceed 14,426,844 mmBtu. *FPL continuously tracks and records heat input to all 4 CT's on an annual basis.*

3. The duct burners shall be fired with natural gas only. The duct burners shall not be operated when the turbines are firing oil. *FPL has not installed the ductburners.*

4. The maximum allowable emissions from each CT in accordance with the BACT determination shall not exceed the following emission limitations at 75 degrees F:

MAXIMUM ALLOWABLE EMISSION PRIOR TO THE INSTALLATION OF THE DUCT BURNERS				
Pollutant	Basis	Fuel	lbs/hr/CT	Emission Limitations** 4CT* TPY
NOx***	42ppm	Gas	264	4,868
	65ppm	Oil	422	
VOC	1 ppmvd	Gas	1.3	50
	6 ppmvd	Oil	7.8	
CO	30 ppmvd	Gas	89	1,489
	33 ppmvd	Oil	100	
PM/PM10		Gas	14.7	424.7
		Oil	58	
SO2		Gas	4.9	1,582.8
		Oil	538	

* Refers to the maximum facility emissions (four CTs). With capacity factor limitations of 25 percent on oil.

**Table revised to reflect removal of the ductburners and the reallocation of the annual emissions for the CTs.

***ppm NOx, dry, corrected to ISO standard ambient air conditions and 15 percent oxygen

MAXIMUM ALLOWABLE EMISSION LIMITS WITH THE DUCT BURNERS INSTALLED

Pollutant	Basis	Fuel	lbs/hr/CT	Emission Limitations*		4DB TPY
				lb/hr/DB	4CT TPY	
NOx	42ppm	Gas	264	10.0	4,716	152
	65ppm	Oil	422			
VOC	1 ppmvd	Gas	1.3	2.0	48.3	30.5
	6 ppmvd	Oil	7.8			
CO	30 ppmvd	Gas	89	17.6	1,405	268
	33 ppmvd	Oil	100			
PM/PM10		Gas	14.7	0.7	414	10.7
		Oil	58			
SO2		Gas	4.9	0.25	1,578.2	4.0
		Oil	538			

*ppm NOx, dry, corrected to ISO standard ambient air conditions at 15 percent oxygen.

NOx emissions from ductburners are based on an as-fired emission limitation of 0.11 lb/mmBtu.

For compliance with each of these emission limits, FPL uses annual stack tests, as listed in the PSD permit and Site Certification.

5. The permittee shall calculate an appropriate lb/mmBtu emission factor for each pollutant based on the compliance tests heat input rates/steam injection rate/emission measurements. After submittal to and approval by the Department, the permittee shall program the on site computer system to calculate and record the emissions of each pollutant for each CT. Results shall be reported as lb/hour and TPY.

FPL has calculated emission factors and submitted them to the Department for approval. Several iterations of correspondence has transpired on this issue. In view of the fact that a CEM has been installed for NOx, and heat input is captured on a continuous basis and that emission factors are available to calculate other pollutants at any time, FPL requests that this condition be deleted from the permit.

6. Sulfuric acid mist emissions assume a maximum of 0.3 percent sulfur in the fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions. *FPL maintains fuel quality analyses for fuel purchases which are available for inspection by the Department. FPL requests that this condition be deleted from the permit, pursuant to FDEP policy issued 2/8/96, as it has been demonstrated that SAM emissions are met by controlling the sulfur content of the fuel oil.*

The following emissions, determined by BACT, are tabulated for PSD and inventory purposes:

Pollutant	Fuel	lb/hr/CT	lb/hr/DB	4CT* (TPY)	4DB+ (TPY)
H2SO4 Acid Mist	Gas	0.042	0.0002		0.003
	Oil	67		196	
Mercury	Gas	0.0192	0.001	0.3	0.002
	Oil	0.0049			
Fluoride	Oil	0.0535	—	0.23	—
Beryllium	Oil	0.0041	—	0.02	—

Notes: * Refers to the maximum facility emissions (four CTs)
 + Refers to the maximum facility emissions (four DBs)

Pursuant to DARM Guidance Document # DARM-PER / GEN-18, dated May 19, 1995, FPL requests that the H2SO4 acid mist, mercury, fluoride and beryllium limits be removed from the permit.

7. Visible emissions shall neither exceed 10% opacity while burning natural gas nor 20% opacity while firing distillate oil.

FPL meets these limitations and has compliance data to support this.

8. The nitrogen oxides emissions from each combustion turbine unit shall be controlled by using steam injection for both natural gas and fuel oil firing modes. In addition, the Permittee shall install duct modules suitable for later installation of SCR equipment when constructing the combined cycle generating units at the facility.

The NOx emissions are controlled by using steam injection...the equipment is available for inspection by the Department at any reasonable time. The duct modules required by the permit condition have also been installed and are likewise available for inspection. (This item is requested to be removed from the permit)

9. The low Nox burners to be installed at Port Everglades units 3 and 4 shall be installed on or before the in service date of the Lauderdale Repowering Project that are capable of achieving a maximum NOx emission rate which shall not exceed the greater of 0.5 lb/mmBtu, or 75% of the maximum rate determined for the existing Port Everglades units 3 and 4 burner configuration. The maximum rate shall be determined in a manner acceptable to the Department. Stack testing of NOx emissions from Port Everglades 3 and 4 shall be conducted as part of regularly scheduled annual compliance tests. Should the low NOx burners prove to be capable of achieving a significantly greater NOx reduction at the Port Everglades plant, the Department reserves the right to adjust the applicable pounds per million Btu limit for the Port Everglades Plant accordingly.

FPL did install the low NOx burners at the Port Everglades plant prior to the in service date for the Lauderdale Repowering project. Records of the installation and records of the in-service dates for the Lauderdale units are available to the Department upon request. The low NOx burners did achieve 75% of the maximum NOx emission rate determined for the existing Port Everglades units. Emission testing records verifying this have been submitted to the Department previously. (This item belongs in the Port Everglades operating permit, and it is requested to be removed from the Lauderdale permit).

10. Initial compliance tests shall be performed on each combustion turbine using both fuels. The stack test for each turbine shall be performed within 10 percent of the maximum heat input rate for the tested operating temperature. Annual (A) compliance tests shall be performed on each combustion turbine with the fuel(s) used for more than 400 hours in the preceding 12-month period. test shall be conducted using EPA reference methods in accordance with the 1988 version of 40 CFR 60 Appendix A:

- a. 5 or 17 for PM (I,A - for oil only)
- b. 8 for sulfuric acid mist (I, for oil only)
- c. 9 for VE (I,A)
- d. 10 for CO (I,A)
- e. 20 for NOx (I,A)
- f. 25A for VOC (I,A)
- g. 104 for beryllium (I, for distillate oil only). A fuel analysis for Be using either Method 7090 or 7091, and sample extraction using Method 3040, as described in the EPA solid waste regulations SW 846 is also acceptable.
- h. ASTM D 2880-71 (or equivalent) for sulfur content of distillate oil (I,A)
- i. ASTM D 1072-80, D 3031-81, D 4084-82 or D 3245-81 or equivalent for sulfur content of natural gas (I and A if deemed necessary by DER).

Other DER approved methods may be used for compliance testing after prior DER approval.

FPL has performed all the initial and annual testing to date, using the test methods specified in the above permit condition. All test data has been submitted to the Department in accordance with applicable reporting requirements. (Specific Conditions 9b and 9g are requested to be removed, as they has been completed. In addition, all of the "Initial testing requirements" are also requested to be removed, as they have also all been completed.)

11. The average sulfur content of the light distillate fuel oil shall not exceed 0.2 percent by weight. The maximum sulfur content of the light distillate fuel oil shall not exceed 0.3 percent. Compliance shall be demonstrated in accordance with the requirements of 40 CFR 60.335 by testing all oil shipments for sulfur content using ASTM D 2880-71 or equivalent, testing for nitrogen content and testing for heating value.

FPL has conducted the testing required by the above permit condition on all shipments of fuel oil. Records are available for the Department's review upon request.

12. Continuous monitoring of the steam injection rates shall be installed, operated and maintained in accordance with 40 CFR 60, Subpart GG, for each combined-cycle unit.

FPL has installed, operated and maintained the steam injection equipment as specified. The records supporting this are available to the Department upon request.

13. To determine compliance with the oil firing heat input limitation, the Permittee shall maintain daily records of fuel oil consumption for each turbine and monthly records of heating value for such fuel. All records shall be maintained for a minimum of three years after the date of each record and shall be made available to representatives of DER upon request.

FPL has the records required by the above permit condition and such records are available to the Department for review.

14. The project shall comply with all the applicable requirements of Chapter 17-2, Florida Administrative Code, and the July 1, 1988 version of 40 CFR 60, Subpart GG, Gas Turbines.

FPL does comply with the referenced rules.

15. Any change in the method of operation, fuels or equipment shall be submitted for approval to DER's bureau of Air Regulation.

FPL has not undertaken any such changes.

16. If start/black start capability for the CTs is provided by a combustion unit, DER shall be notified of the type/model, output capacity, anticipated hours of operation and air emissions of the unit.

FPL has not installed such start/black start equipment. Existing site equipment provides this function. Therefore this specific condition is respectfully requested to be deleted from the permit.

17. The Permittee shall have the required sampling tests of the emission performed within 60 days after achieving the maximum turbine firing rate, but not later than 180 days from the start of operation. Thirty (30) days prior to the initial sampling test and fifteen (15) days notice before subsequent annual testing shall be provided to the Southeast District Office. Written reports of the test shall be submitted to the Southeast District Office within 45 days of test completion.

FPL was able to perform the initial sampling. Notice was given to the Department of initial firing dates for each combustion turbine and the test dates following the initial firing. In addition, the 30-day and 15-day prior notifications were carried out in accordance with the permit condition. (The references to the initial testing are requested to be deleted from the permit).

18. If construction does not commence within 18 months of issuance of this certification/permit, then the Permittee shall obtain from DER a review and, if necessary, a modification of the control technology and allowable emissions for the unit(s) on which construction has not commenced (40 CFR 52.21(r)(2)).

Construction did commence within 18 months of this certification. FPL has photographs and other records indicating this, if the Department requires them. (This item is requested to be deleted from the permit).

19. Quarterly excess emission reports, in accordance with the July 1, 1988 version of 40 CFR 60.7 and 60.334 shall be submitted to DER's Southeast District Office. Annual reports shall be submitted to the District Office in accordance with Rule 17-2.700(7), Florida Administrative Code.

FPL has submitted quarterly excess emission reports and the annual reports, as required by the condition.

20. Literature on equipment selected shall be submitted as it becomes available. A CT-specific graph of the relationship between NO_x emissions and steam injection and also another of ambient temperature and heat inputs to the CT shall be submitted to DER's Southeast District Office and the Bureau of Air Regulation.

The referenced literature and graphs have been submitted to the Department. (This item is requested to be deleted from the permit).

21. Stack sampling facilities shall be provided for each of the four stacks.

Stack sampling facilities are installed on each stack. (This item is requested to be deleted from the permit).

22. Construction period fugitive dust emissions shall be minimized by covering or watering dust generation areas.

Construction period fugitive dust was controlled via watering. (This item is requested to be deleted from the permit).

Note: FPL has recently requested modification to the current PSD permit and Site Certification to incorporate recent Department guidance regarding compliance testing of combustion turbine units. As of this date, this modification has not yet been finalized and incorporated into the permits; however FPL expects the process to be completed by the time this permit is process by the Department, and requests that the additional permit condition below also be included in the Title V permit:

"23. Testing of emissions shall be conducted with the source operating at capacity. Capacity is defined as 95-100 percent of the manufacturer's rated heat input achievable for the average ambient (or conditioned) air temperature during the test. If it is impracticable to test at capacity, then sources may be tested at less than capacity. In such cases the entire heat input vs. inlet temperature curve will be adjusted by the increment equal to the difference between the design heat input value and 105 percent of the value reached during the test. Data, curves and calculations necessary to demonstrate the heat input rate correction at both design and test conditions shall be submitted to the Department with the compliance test report."

Attached please find FPL's Customized Fuel Monitoring Schedule, (referenced in 40 CFR 60.334(b)(2)), and related correspondence, which is an additional applicable condition for the combined-cycle units.

Note: Please also refer to Attachment PFLU6_13.txt for Additional Applicable Requirements that relate to the simple-cycle Gas Turbines, fuel storage tanks and solvent useage.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 2

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

**A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)**

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Combined Cycle Unit 4B- one CT exhausting through a HRSG.
2. Emissions Unit Identification Number: 036 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): Y
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): There are 4 identical combined-cycle combustion turbines at Lauderdale. Each CT is connected to an electrical generator, and each CT generates heat which produces steam in a heat recovery steam generator (HRSG). The steam from 2 HRSG's is then sent to a steam turbine-generator for additional electric power. The 4 combined-cycle CT's have a current annual aggregate heat input limitation of 54,129,421 mmBtu, and an aggregate heat input limitation of 14,426,844 mmBtu while firing distillate oil.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): Steam or Water Injection
2. Control Device or Method Code: Steam of Water Injection

B. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 05/23/93
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Westinghouse Model Number: MW501F
4. Generator Nameplate Rating: 231.25 MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 1775.62 mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The maximum heat input rate given in question #1 above is for natural gas fuel at 75 degrees F. The maximum heat input rate while firing light distillate oil is 1646.9 mmBtu/hour at 75 degrees F.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 2

40 CFR 60.332 (a)(1)	40 C.F.R. 72.9(a)(1)(iii)	40 C.F.R. 75.21(d)	DNRP 27-173(g)(1) (state only)
40 CFR 60.332 (b)	40 C.F.R. 72.9(a)(1)(i)	40 C.F.R. 75.21(e)	DNRP 27-173(g)(4) (state only)
40 CFR 60.332(f)	40 C.F.R. 72.9(a)(2)	40 C.F.R. 75.21(f)	DNRP 27-173(g)(5) (state only)
40 CFR 60.332(k)	40 C.F.R. 72.9(b)	40 C.F.R. 75.22	DNRP 27-173(g)(6) (state only)
40 CFR 60.333 (b)	40 C.F.R. 72.9(c)(1)	40 C.F.R. 75.24	DNRP 27-184 (state only)
40 CFR 60.334 (b)(1)(when firing oil)	40 C.F.R. 72.9(c)(2)	40 C.F.R. 75.30(a)(3)	DNRP 27-188 (state only)
40 CFR 60.334 (b)(2)(when firing natural gas)	40 C.F.R. 72.9(c)(3)(iii)	40 C.F.R. 75.32	DNRP 27-189 (state only)
40 CFR 60.334(a)	40 C.F.R. 72.9(c)(4)	40 C.F.R. 75.33	F.A.C. 62-204.800 (7)(d) (state only)
40 CFR 60.334(c)	40 C.F.R. 72.9(c)(5)	40 C.F.R. 75.36	F.A.C. 62-204.800 (b)37. (state only)
40 CFR 60.335	40 C.F.R. 72.9(d)	40 C.F.R. 75.33(c)	F.A.C. 62-204.800(12) (state only)
40 C.F.R. 60.11(a)	40 C.F.R. 72.9(e)	40 C.F.R. 75.33(d)(2)	F.A.C. 62-204.800(13) (state only)
40 C.F.R. 60.11(b)	40 C.F.R. 72.9(f)	40 C.F.R. 75.34(a)	F.A.C. 62-204.800(14) (state only)
40 C.F.R. 60.11(c)	40 C.F.R. 72.9(g)	40 C.F.R. 75.34(b)	F.A.C. 62-210.650
40 C.F.R. 60.11(d)	40 C.F.R. 72.9(g)(4)	40 C.F.R. 75.34(d)	F.A.C. 62-210.700 (1)
40 C.F.R. 60.11(e)(2)	40 C.F.R. 73.33	40 C.F.R. 75.34(d)	F.A.C. 62-210.700 (4)
40 C.F.R. 60.12	40 C.F.R. 73.35	40 C.F.R. 75.35(c)	F.A.C. 62-210.700 (6)
40 C.F.R. 60.13(a)	40 C.F.R. 75 Appendix A-1	40 C.F.R. 75.35(c)	F.A.C. 62-214.300
40 C.F.R. 60.13(d)(1)	40 C.F.R. 75 Appendix A-2	40 C.F.R. 75.36	F.A.C. 62-214.320
40 C.F.R. 60.13(e)	40 C.F.R. 75 Appendix A-3	40 C.F.R. 75.36(b)	F.A.C. 62-214.330
40 C.F.R. 60.13(h)	40 C.F.R. 75 Appendix A-4	40 C.F.R. 75.36(c)	F.A.C. 62-214.340
40 C.F.R. 60.7(b)	40 C.F.R. 75 Appendix A-5	40 C.F.R. 75.36(d)	F.A.C. 62-214.350(2)
40 C.F.R. 60.7(f)	40 C.F.R. 75 Appendix A-6	40 C.F.R. 75.36(e)	F.A.C. 62-214.350(3)
40 C.F.R. 60.8(c)	40 C.F.R. 75 Appendix B	40 C.F.R. 75.36(f)	F.A.C. 62-214.350(6)
40 C.F.R. 60.8(e)	40 C.F.R. 75 Appendix C-1	40 C.F.R. 75.36(g)	F.A.C. 62-214.370
40 C.F.R. 72.20(a)	40 C.F.R. 75 Appendix C-2	40 C.F.R. 75.36(h)	F.A.C. 62-214.430
40 C.F.R. 72.20(b)	40 C.F.R. 75 Appendix D	40 C.F.R. 75.60(a)	F.A.C. 62-296.320 (4)(b) (state only)
40 C.F.R. 72.20(c)	40 C.F.R. 75 Appendix F	40 C.F.R. 75.60(b)	F.A.C. 62-296.800(2)(a)37 (as applicable) (state only)
40 C.F.R. 72.21(a)	40 C.F.R. 75 Appendix G-2	40 C.F.R. 75.60(c)(3)	F.A.C. 62-297.310(1)
40 C.F.R. 72.21(b)	40 C.F.R. 75 Appendix H	40 C.F.R. 75.61(a)(1)	F.A.C. 62-297.310(3)
40 C.F.R. 72.21(d)	40 C.F.R. 75.10(a)(1)	40 C.F.R. 75.61(a)(5)	F.A.C. 62-297.310(4)(a)1.
40 C.F.R. 72.22(a)	40 C.F.R. 75.10(a)(2)	40 C.F.R. 75.62	F.A.C. 62-297.310(4)(b)
40 C.F.R. 72.22(c)	40 C.F.R. 75.10(a)(3)(i)	40 C.F.R. 75.63	F.A.C. 62-297.310(4)(c)
40 C.F.R. 72.23	40 C.F.R. 75.10(a)(4)	40 C.F.R. 75.64(a)	F.A.C. 62-297.310(4)(d)
40 C.F.R. 72.24(a)	40 C.F.R. 75.10(b)	40 C.F.R. 75.64(b)	F.A.C. 62-297.310(5)
40 C.F.R. 72.30(a)	40 C.F.R. 75.10(c)	40 C.F.R. 75.64(c)	F.A.C. 62-297.310(6)(a)
40 C.F.R. 72.30(b)(2)	40 C.F.R. 75.10(d)	40 C.F.R. 75.64(d)	F.A.C. 62-297.310(6)(c)
40 C.F.R. 72.30(c)	40 C.F.R. 75.10(f)	40 C.F.R. 75.65	F.A.C. 62-297.310(6)(d)
40 C.F.R. 72.30(d)	40 C.F.R. 75.10(g)	40 C.F.R. 75.66(a)	F.A.C. 62-297.310(6)(e)
40 C.F.R. 72.32	40 C.F.R. 75.10(h)	40 C.F.R. 75.66(b)	F.A.C. 62-297.310(6)(f)
40 C.F.R. 72.33(b)	40 C.F.R. 75.11(d)	40 C.F.R. 75.66(c)	F.A.C. 62-297.310(6)(g)
40 C.F.R. 72.33(c)	40 C.F.R. 75.12(a)	40 C.F.R. 75.66(d)	F.A.C. 62-297.310(7)(a)1.
40 C.F.R. 72.33(d)	40 C.F.R. 75.12(b)	40 C.F.R. 75.66(e)	F.A.C. 62-297.310(7)(a)3.
40 C.F.R. 72.40(a)	40 C.F.R. 75.13(b)	40 C.F.R. 75.66(f)	F.A.C. 62-297.310(7)(a)4.b.
40 C.F.R. 72.40(b)	40 C.F.R. 75.14(c)	40 C.F.R. 75.66(g)	F.A.C. 62-297.310(7)(a)5.
40 C.F.R. 72.40(c)	40 C.F.R. 75.20(a)(5)	40 C.F.R. 75.66(h)	F.A.C. 62-297.310(7)(a)7.
40 C.F.R. 72.40(d)	40 C.F.R. 75.20(b)	40 C.F.R. 77.3	F.A.C. 62-297.310(7)(a)9.
40 C.F.R. 72.51	40 C.F.R. 75.20(c)	40 C.F.R. 77.5(b)	F.A.C. 62-297.310(7)(c)
40 C.F.R. 72.90	40 C.F.R. 75.20(d)	40 C.F.R. 77.6	F.A.C. 62-297.310(8)
	40 C.F.R. 75.21(a)	DNRP 27-173(a) (state only)	
	40 C.F.R. 75.21(b)	DNRP 27-173(c) (state only)	
	40 C.F.R. 75.21(c)	DNRP 27-173(d) (state only)	
		DNRP 27-173(e) (state only)	
		DNRP 27-173(f) (state only)	

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / Emission Unit # :

1. Identification of Point on Plot Plan or Flow Diagram: CT HRSG. stack 4B
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): NA
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 150 ft
7. Exit Diameter: 18 ft
8. Exit Temperature: 330 °F
9. Actual Volumetric Flow Rate: 2422969 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.167 North: 2883.506
14. Emission Point Comment (limit to 200 characters): The flow rate given is the design flow rate while firing light distillate oil at 40 degrees fahrenheit. The design flow rate while firing natural gas at 40 degrees fahrenheit is 2,419,751 acfm.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 2 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Light distillate oil burned in combined cycle CT 4B
2. Source Classification Code (SCC): 2-01-009-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 12.11
5. Maximum Annual Rate: 106084
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.3
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Maximum annual rate reflects the annual heat input limitation of 14,426,844 mmBtu at 75 degrees Fahrenheit of operation on distillate oil, which is a permit limitation in the current PSD permit

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :/ Emission Unit #: 2 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Natural gas burned in combined cycle CT 4B
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: million cubic feet burned
4. Maximum Hourly Rate: 1.69
5. Maximum Annual Rate: 14814
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.0031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Natural gas and distillate oil may be co-fired, primarily during fuel switching (from oil to gas or from gas to oil.). The maximum annual rate is based on 100% load for 8760 hrs at 75 degrees F.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	EL
NOx	028	NA	EL
CO	NA	NA	EL
PM	NA	NA	EL
PM10	NA	NA	EL
VOC	NA	NA	EL
SAM	NA	NA	EL
FL	NA	NA	EL
H114	NA	NA	EL
H021	NA	NA	EL
H113	NA	NA	NS
H133	NA	NA	NS
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Carbon Monoxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 100 lbs/hr 438 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 100 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): In current PSD permit. Calculations: - 100 lb/hr on oil (permit limit) - 89 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: (100 lb/hr/CT)*(8760 hr/yr)/(2000 lb/ton) = 438 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 100 Units : lb/hour
4. Equivalent Allowable Emissions: 100 lbs/hr 438 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if oil is fired for more than 400 hours during the previous 12 months (Reference permit PSD-FL-145).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 138 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 1
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 89 Units : lb/hour
4. Equivalent Allowable Emissions: 89 lbs/hr 389.8 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if natural gas operation is greater than 400 hours during the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 1
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1489 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1489 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit for CO. Also, the tpy given in field 4 reflects the "without ductburners" condition, and represents emissions from 4 combustion turbines.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides
2. Total Percent Efficiency of Control: 70 %
3. Potential Emissions: 422 lbs/hr 1848 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 422 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): Oil Calculation: 422 lb/hour x 8760hours/year = 3,696,720 lb/year 3696720 / 2,000 lb/ton = 1848.4 tpy for one combustion turbine Natural Gas Calculation: 264 lb/hour x 8760 hours/year = 2,312,640 lb/year 2,312,640 / 2,000 lb/ton = 1156.3 tpy for one combustion turbine
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 2
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 422 Units : lb/hour
4. Equivalent Allowable Emissions: 422 lbs/hr 1848 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20) if oil operation > 400 hours in previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 2
Basis For Allowable Emission #: 2

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 264 Units : lb/hour
4. Equivalent Allowable Emissions: 264 lbs/hr 1156 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20)
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 135 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 2
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4868 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 4868 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit currently in effect. In addition, the tpy value given in field 4 is reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted:	Particulate Matter - Total
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	58 lbs/hr 254 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor: 58 Units lbs/hr	Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 3
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: Not required for natural gas firing.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 3
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: None
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted: Particulate Matter - PM10	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 58 lbs/hr	254 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor: 58	Units lbs/hr
Reference: Permit #PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0	
[] 0	[] 1
[] 2	[] 3
[] 4	[] 5
8. Calculation of Emissions (limit to 600 characters): -58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 10
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 The information given in fields 3 and 4 for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 10
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: None required for natural gas firing
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 129 The information given in fields 3 and 4 for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 10
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/year
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 181 The information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 4

Pollutant Detail Information

1. Pollutant Emitted: Sulfur Dioxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 538 lbs/hr 1571 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 538 Units lbs/hr Reference: Site Certification
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters): -From permit: a maximum of 0.3 % sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions -Permit limit for SO2: 538 lbs/hr/CT for oil and 4.9 lb/hr/CT for gas -Annual permit limit: 1,582 TPY for all CT's -Old permit limit for SO2 on natural gas 0.97 lb/hr/CT OIL: $([538 \text{ lb/hr/CT}]/[0.3\%]) * (0.2\%) * (8760 \text{ hr/yr}) / (2000) = 1571 \text{ TPY/CT (8760 hours of operation)}$
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 4
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 538 Units : lb/hr
4. Equivalent Allowable Emissions: 538 lbs/hr 1571 tons/yr
5. Method of Compliance: Average composite of as-received samples - sulfur content of distillate oil using ASTM D-2880-71 or equivalent.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 4
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.

2. Future Effective Date of Allowable Emissions:

3. Requested Allowable Emissions and Units: 4.9 Units : lbs/hr

4. Equivalent Allowable Emissions: 4.9 lbs/hr 21.46 tons/yr

5. Method of Compliance: Fuel analysis - For natural gas the customized fuel monitoring schedule is used. Please refer to the attached file Fuelmon.pcx for additional information.

6. Pollutant Allowable Emissions Comment (**Desc. of Related Operating Method/Mode**)
(limit to 200 characters):

The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 4
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1582.8 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1582.8 tons/yr
5. Method of Compliance: Annual Operating Report (from fuel analysis).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information presented on this page represents the annual tpy limit for SO2 for this emission unit.

H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 5

Pollutant Detail Information

1. Pollutant Emitted:	Volatile Organic Compounds
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	7.8 lbs/hr 34.2 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	7.8 Units lbs/hr
Reference:	Permit # PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
	-7.8 lb/hr on oil (permit limit)
	-1.3 lb/hr on gas (permit limit)
OIL:	
	$(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 34.2 \text{ TPY/CT}$ (8760 hours of operation)
	$(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 8.5 \text{ TPY/CT}$ (25% Cap. factor)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 7.8 Units : lb/hour
4. Equivalent Allowable Emissions: 7.8 lbs/hr 34.2 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if distillate oil is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The potential emission rates are based on oil firing (worst-case). The tons per year limit given above is based on an individual CT operating at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.3 Units : lb/hour
4. Equivalent Allowable Emissions: 1.3 lbs/hr 5.7 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if natural gas is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 5
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 50 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 50 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): This page represents the annual VOC tpy limitation. The limit above represents the 75 deg. F condition. Information in #4 above reflects both distillate oil and natural gas operation for the 4 CTs.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 6

Pollutant Detail Information

1. Pollutant Emitted: Sulfuric Acid Mist
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 67 lbs/hr 196 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 67 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): -From the PSD permit and Site Certification: a maximum of 0.3 percent sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions - Annual permit limit: 196 TPY for all 4 CTs -67 lb/hr on oil (permit limit) -0.042 lb/hr on gas (permit limit) OIL: $((67 \text{ lb/hr/CT})/[0.3\%])*(0.2\%)*(8760 \text{ hr/yr})/(2000) = 195.64 \text{ TPY/CT (8760 hours of operation)}$
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): This pollutant is requested to be deleted from the permit per FDEP Policy dated February 8, 1996. See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 6

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :
4. Equivalent Allowable Emissions: lbs/hr tons/yr
5. Method of Compliance:
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 79 This limit is requested to be deleted. See Attachment PFLU1_12.txt for details.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 7

Pollutant Detail Information

1. Pollutant Emitted: Mercury
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 0.0192 lbs/hr 0.084 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.0192 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): Current Permit Limits: -0.0049 lb/hr on oil -0.0192 lb/hr on gas OIL: (0.0049 lb/hr/CT)*(8760 hr/yr)*(25%)/(2000 lb/ton) = 0.005 TPY/CT (25% Cap. factor) GAS: (0.0192 lb/hr/CT)*(8760 hr/yr)/(2000 lb/ton) = 0.084 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 7
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 8

Pollutant Detail Information

1. Pollutant Emitted:	Fluoride
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0535 lbs/hr 0.23 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0535 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current permit limits:	
-0.0535 lb/hr on oil	
-NA on gas	
OIL:	
(0.0535 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.234 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 8
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 9

Pollutant Detail Information

1. Pollutant Emitted:	Beryllium
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0041 lbs/hr 0.018 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0041 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current Permit Limits:	
-0.0041 lb/hr on oil	
-NA on gas	
OIL:	
(0.0041 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.018 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: 1 Emission Unit #: 2 Pollutant #: 9

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :
4. Equivalent Allowable Emissions: lbs/hr tons/yr
5. Method of Compliance:
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 2
Visible Emissions Limitation #: 2

1. Visible Emissions Subtype: VE20					
2. Basis for Allowable Opacity Code(R/O):	RULE	<input type="checkbox"/>	Rule	<input type="checkbox"/>	Other
3. Allowable Opacity:	Normal Conditions: 20	%	Exceptional Conditions: 100	%	
Maximum Period of Excess Opacity Allowed: 60 min/hr					
4. Method of Compliance Code:	Annual Method 9 Visible Emission Evaluation				
5. Visible Emissions Comment (limit to 200 characters):	Oil Firing: Rule 62-210.700(1) allows excess emissions up to 2 hr / 24 hr for startup, shutdown and malfunction.				

I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 2
Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE10
2. Basis for Allowable Opacity Code(R/O): RULE [] Rule [] Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation
5. Visible Emissions Comment (limit to 200 characters): The allowable opacity limits listed above are applicable to operation on natural gas only.

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 2
 Continuous Monitor #: 2

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Carbon dioxide	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer: Milton Roy		
Model Number: 3300	Serial Number: N4C0308T	
5. Installation Date (DD-MON-YYYY): 11/22/94		
6. Performance Specification Test Date (DD-MON-YYYY): 11/14/95		
7. Continuous Monitor Comment (limit to 200 characters):		
The CO2 monitor provides % O2 data to the NOx monitor per 40 CFR 75 Appendix E, eqn E-3. CO2 is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the absence of a flow monitor.		

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 2
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Nitrogen Oxides	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer:	TECO	
Model Number:	42	Serial Number: 42D-49808-284
5. Installation Date (DD-MON-YYYY):	11/22/94	
6. Performance Specification Test Date (DD-MON-YYYY):	11/14/95	
7. Continuous Monitor Comment (limit to 200 characters): The CO2 monitor provides percent O2 data to the NOx monitoring system in accordance with 40 CFR 75 Appendix E, equation E-3.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM	C		
SO2	C		
NO2	C		
4. Baseline Emissions:			
PM	lbs/hr	195	tons/yr
SO2	lbs/hr	2243	tons/yr
NO2	2456 tons/yr		

5. PSD Comment (limit to 200 characters):
The Lauderdale facility underwent PSD review during the Repowering licensing in 1989-1990.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 2

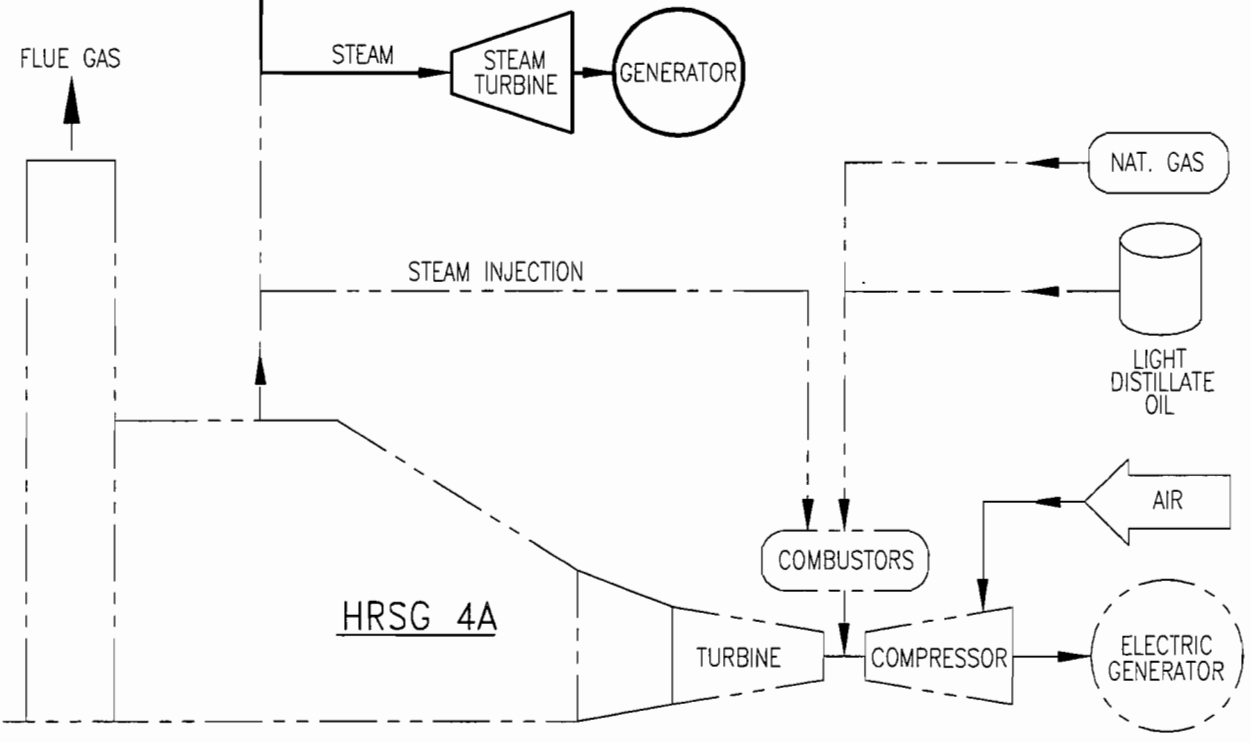
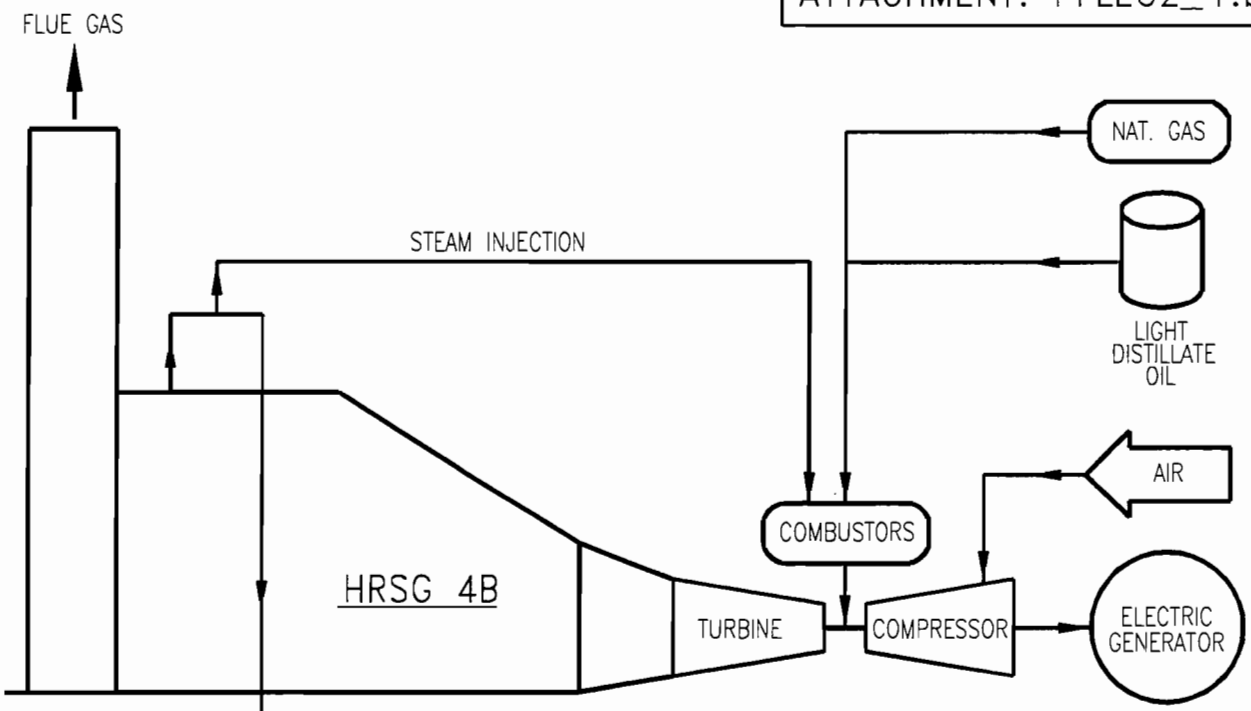
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU2_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU1_2.txt, Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PFLU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU1_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU1_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU1_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

TECHNICAL ACCEPTANCE		
ORG	BY	DATE
ENGINEERING ORGANIZATION		
WALKDOWN INFORMATION		
ORG	BY	DATE
AS-BUILT INFORMATION		



BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FLO05463	TITLE EMISSION UNIT FLOW DIAGRAM COMBUSTION TURBINE UNIT 4B ATTACHMENT NO. EU2
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FLO05463	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER: PFL4-M0103-YY SHEET: 1 OF 1 REV: 0

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : / Emission Unit # : 3

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Combined Cycle Unit 5A - one CT exhausting through a HRSG.
2. Emissions Unit Identification Number: 037 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): Y
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): There are 4 identical combined-cycle combustion turbines at Lauderdale. Each CT is connected to an electrical generator, and each CT generates heat which produces steam in a heat recovery steam generator (HRSG). The steam from 2 HRSG's is then sent to a steam turbine-generator for additional electric power. The 4 combined-cycle CT's have a current annual aggregate heat input limitation of 54,129,421 mmBtu, and an aggregate heat input limitation of 14,426,844 mmBtu while firing distillate oil.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 06/09/93
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Westinghouse Model Number: MW501F
4. Generator Nameplate Rating: 231.25 MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 1775.62 mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The maximum heat input rate given in question #1 above is for natural gas fuel at 75 degrees F. The maximum heat input rate while firing light distillate oil is 1646.9 mmBtu/hour at 75 degrees F.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 3

<p>40 CFR 60.332 (a)(1) 40 CFR 60.332 (b) 40 CFR 60.332(f) 40 CFR 60.332(k) 40 CFR 60.333 (b) 40 CFR 60.334 (b)(1)(when firing oil) 40 CFR 60.334 (b)(2)(when firing natural gas) 40 CFR 60.334(a) 40 CFR 60.334(c) 40 CFR 60.335 40 C.F.R. 60.11(a) 40 C.F.R. 60.11(b) 40 C.F.R. 60.11(c) 40 C.F.R. 60.11(d) 40 C.F.R. 60.11(e)(2) 40 C.F.R. 60.12 40 C.F.R. 60.13(a) 40 C.F.R. 60.13(d)(1) 40 C.F.R. 60.13(e) 40 C.F.R. 60.13(h) 40 C.F.R. 60.7(b) 40 C.F.R. 60.7(f) 40 C.F.R. 60.8(c) 40 C.F.R. 60.8(e) 40 C.F.R. 72.20(a) 40 C.F.R. 72.20(b) 40 C.F.R. 72.20(c) 40 C.F.R. 72.21(a) 40 C.F.R. 72.21(b) 40 C.F.R. 72.21(d) 40 C.F.R. 72.22(a) 40 C.F.R. 72.22(c) 40 C.F.R. 72.23 40 C.F.R. 72.24(a) 40 C.F.R. 72.30(a) 40 C.F.R. 72.30(b)(2) 40 C.F.R. 72.30(c) 40 C.F.R. 72.30(d) 40 C.F.R. 72.32 40 C.F.R. 72.33(b) 40 C.F.R. 72.33(c) 40 C.F.R. 72.33(d) 40 C.F.R. 72.40(a) 40 C.F.R. 72.40(b) 40 C.F.R. 72.40(c) 40 C.F.R. 72.40(d) 40 C.F.R. 72.51 40 C.F.R. 72.90</p>	<p>40 C.F.R. 72.9(a)(1)(iii) 40 C.F.R. 72.9(a)(1)(i) 40 C.F.R. 72.9(a)(2) 40 C.F.R. 72.9(b) 40 C.F.R. 72.9(c)(1) 40 C.F.R. 72.9(c)(2) 40 C.F.R. 72.9(c)(3)(iii) 40 C.F.R. 72.9(c)(4) 40 C.F.R. 72.9(c)(5) 40 C.F.R. 72.9(d) 40 C.F.R. 72.9(e) 40 C.F.R. 72.9(f) 40 C.F.R. 72.9(g)(4) 40 C.F.R. 73.33 40 C.F.R. 73.35 40 C.F.R. 75 Appendix A-1 40 C.F.R. 75 Appendix A-2 40 C.F.R. 75 Appendix A-3 40 C.F.R. 75 Appendix A-4 40 C.F.R. 75 Appendix A-5 40 C.F.R. 75 Appendix A-6 40 C.F.R. 75 Appendix B 40 C.F.R. 75 Appendix C-1 40 C.F.R. 75 Appendix C-2 40 C.F.R. 75 Appendix D 40 C.F.R. 75 Appendix F 40 C.F.R. 75 Appendix G-2 40 C.F.R. 75 Appendix H 40 C.F.R. 75.10(a)(1) 40 C.F.R. 75.10(a)(2) 40 C.F.R. 75.10(a)(3)(i) 40 C.F.R. 75.10(a)(4) 40 C.F.R. 75.10(b) 40 C.F.R. 75.10(c) 40 C.F.R. 75.10(f) 40 C.F.R. 75.10(g) 40 C.F.R. 75.11(d) 40 C.F.R. 75.12(a) 40 C.F.R. 75.12(b) 40 C.F.R. 75.13(b) 40 C.F.R. 75.14(c) 40 C.F.R. 75.20(a)(5) 40 C.F.R. 75.20(b) 40 C.F.R. 75.20(c) 40 C.F.R. 75.20(g) 40 C.F.R. 75.21(a) 40 C.F.R. 75.21(b) 40 C.F.R. 75.21(c)</p>	<p>40 C.F.R. 75.21(d) 40 C.F.R. 75.21(e) 40 C.F.R. 75.21(f) 40 C.F.R. 75.22 40 C.F.R. 75.24 40 C.F.R. 75.30(a)(3) 40 C.F.R. 75.32 40 C.F.R. 75.33 40 C.F.R. 75.36 40 C.F.R. 75.4(a)(4)(i) 40 C.F.R. 75.4(b) 40 C.F.R. 75.4(g) 40 C.F.R. 75.5 40 C.F.R. 75.53(a) 40 C.F.R. 75.53(b) 40 C.F.R. 75.53(c) 40 C.F.R. 75.53(d)(2) 40 C.F.R. 75.54(a) 40 C.F.R. 75.54(b) 40 C.F.R. 75.54(d) 40 C.F.R. 75.55(c) 40 C.F.R. 75.56 40 C.F.R. 75.60(a) 40 C.F.R. 75.60(b) 40 C.F.R. 75.60(c)(3) 40 C.F.R. 75.61(a)(1) 40 C.F.R. 75.61(a)(5) 40 C.F.R. 75.62 40 C.F.R. 75.63 40 C.F.R. 75.64(a) 40 C.F.R. 75.64(b) 40 C.F.R. 75.64(c) 40 C.F.R. 75.64(d) 40 C.F.R. 75.65 40 C.F.R. 75.66(a) 40 C.F.R. 75.66(b) 40 C.F.R. 75.66(c) 40 C.F.R. 75.66(d) 40 C.F.R. 75.66(g) 40 C.F.R. 75.66(h) 40 C.F.R. 77.3 40 C.F.R. 77.5(b) 40 C.F.R. 77.6 DNRP 27-173(a) (state only) DNRP 27-173(c) (state only) DNRP 27-173(d) (state only) DNRP 27-173(e) (state only) DNRP 27-173(f) (state only)</p>	<p>DNRP 27-173(g)(1) (state only) DNRP 27-173(g)(4) (state only) DNRP 27-173(g)(5) (state only) DNRP 27-173(g)(6) (state only) DNRP 27-184 (state only) DNRP 27-188 (state only) DNRP 27-189 (state only) F.A.C. 62-204.800 (7)(d) (state only) F.A.C. 62-204.800 (b)37. (state only) F.A.C. 62-204.800(12) (state only) F.A.C. 62-204.800(13) (state only) F.A.C. 62-204.800(14) (state only) F.A.C. 62-210.650 F.A.C. 62-210.700 (1) F.A.C. 62-210.700 (4) F.A.C. 62-210.700 (6) F.A.C. 62-214.300 F.A.C. 62-214.320 F.A.C. 62-214.330 F.A.C. 62-214.340 F.A.C. 62-214.350(2) F.A.C. 62-214.350(3) F.A.C. 62-214.350(6) F.A.C. 62-214.370 F.A.C. 62-214.430 F.A.C. 62-296.320 (4)(b) (state only) F.A.C. 62-296.800(2)(a)37 (as applicable) (state only) F.A.C. 62-297.310(1) F.A.C. 62-297.310(3) F.A.C. 62-297.310(4)(a)1. F.A.C. 62-297.310(4)(b) F.A.C. 62-297.310(4)(c) F.A.C. 62-297.310(4)(d) F.A.C. 62-297.310(5) F.A.C. 62-297.310(6)(a) F.A.C. 62-297.310(6)(c) F.A.C. 62-297.310(6)(d) F.A.C. 62-297.310(6)(e) F.A.C. 62-297.310(6)(f) F.A.C. 62-297.310(6)(g) F.A.C. 62-297.310(7)(a)1. F.A.C. 62-297.310(7)(a)3. F.A.C. 62-297.310(7)(a)4.b. F.A.C. 62-297.310(7)(a)5. F.A.C. 62-297.310(7)(a)7. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(7)(c) F.A.C. 62-297.310(8)</p>
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 3

1. Identification of Point on Plot Plan or Flow Diagram: CT HRSG. stack 5A
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): NA
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 150 ft
7. Exit Diameter: 18 ft
8. Exit Temperature: 330 °F
9. Actual Volumetric Flow Rate: 2422969 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.166 North: 2883.546
14. Emission Point Comment (limit to 200 characters): The flow rate given is the design flow rate while firing light distillate oil at 40 degrees fahrenheit. The design flow rate while firing natural gas at 40 degrees fahrenheit is 2,419,751 acfm.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 3 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Light distillate oil burned in combined cycle CT 5A
2. Source Classification Code (SCC): 2-01-009-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 12.11
5. Maximum Annual Rate: 106084
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.3
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Max.annual rate reflects the annual heat input limitation of 14,426,844 mmBtu at 75 degrees Fahrenheit of operation on #2 oil, which is a permit limitation in the current PSD permit.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 3 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Natural gas burned in combined cycle CT 5A
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: million cubic feet burned
4. Maximum Hourly Rate: 1.69
5. Maximum Annual Rate: 14814
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.0031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Natural gas and distillate oil may be co-fired, primarily during fuel switching (from oil to gas or from gas to oil.). The maximum annual rate is based on 100% load for 8760 hrs at 75 degrees F.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	EL
NOx	028	NA	EL
CO	NA	NA	EL
PM	NA	NA	EL
PM10	NA	NA	EL
VOC	NA	NA	EL
SAM	NA	NA	EL
FL	NA	NA	EL
H114	NA	NA	EL
H021	NA	NA	EL
H113	NA	NA	NS
H133	NA	NA	NS
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Carbon Monoxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 100 lbs/hr 438 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 100 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): In current PSD permit. Calculations: - 100 lb/hr on oil (permit limit) - 89 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: (100 lb/hr/CT)*(8760 hr/yr)/(2000 lb/ton) = 438 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 100 Units : lb/hour
4. Equivalent Allowable Emissions: 100 lbs/hr 438 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if oil is fired for more than 400 hours during the previous 12 months (Reference permit PSD-FL-145).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 138 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 1
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 89 Units : lb/hour
4. Equivalent Allowable Emissions: 89 lbs/hr 389.8 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if natural gas operation is greater than 400 hours during the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 1
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1489 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1489 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit for CO. Also, the tpy given in field 4 reflects the "without ductburners" condition, and represents emissions from 4 combustion turbines.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides
2. Total Percent Efficiency of Control: 70 %
3. Potential Emissions: 422 lbs/hr 1848 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 422 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): Oil Calculation: 422 lb/hour x 8760hours/year = 3,696,720 lb/year 3696720 / 2,000 lb/ton = 1848.4 tpy for one combustion turbine Natural Gas Calculation: 264 lb/hour x 8760 hours/year = 2,312,640 lb/year 2,312,640 / 2,000 lb/ton = 1156.3 tpy for one combustion turbine
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 2
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 422 Units : lb/hour
4. Equivalent Allowable Emissions: 422 lbs/hr 1848 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20) if oil operation > 400 hours in previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 2
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 264 Units : lb/hour
4. Equivalent Allowable Emissions: 264 lbs/hr 1156 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20)
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 135 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 2
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4868 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 4868 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit currently in effect. In addition, the tpy value given in field 4 is reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted:	Particulate Matter - Total
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	58 lbs/hr 254 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	58 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 3
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 3
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: Not required for natural gas firing.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 3
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: None
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted:	Particulate Matter - PM10
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	58 lbs/hr 254 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	58 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 10
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 The information given in fields 3 and 4 for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 10
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: None required for natural gas firing
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 129 The information given in fields 3 and 4 for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 10
Basis For Allowable Emission #: 3

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/year
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 181 The information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 4

Pollutant Detail Information

1. Pollutant Emitted:	Sulfur Dioxide
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	538 lbs/hr 1571 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	538 Units lbs/hr
Reference:	Site Certification
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	<p>-From permit: a maximum of 0.3 % sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions</p> <p>-Permit limit for SO2: 538 lbs/hr/CT for oil and 4.9 lb/hr/CT for gas</p> <p>-Annual permit limit: 1,582 TPY for all CT's</p> <p>-Old permit limit for SO2 on natural gas 0.97 lb/hr/CT</p> <p>OIL: $([538 \text{ lb/hr/CT}]/[0.3\%]) \cdot (0.2\%) \cdot (8760 \text{ hr/yr}) / (2000) = 1571 \text{ TPY/CT (8760 hours of operation)}$ </p>
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 4
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 538 Units : lb/hr
4. Equivalent Allowable Emissions: 538 lbs/hr 1571 tons/yr
5. Method of Compliance: Average composite of as-received samples - sulfur content of distillate oil using ASTM D-2880-71 or equivalent.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 4
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.9 Units : lbs/hr
4. Equivalent Allowable Emissions: 4.9 lbs/hr 21.46 tons/yr
5. Method of Compliance: Fuel analysis - For natural gas the customized fuel monitoring schedule is used. Please refer to the attached file Fuelmon.pcx for additional information.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 4
Basis For Allowable Emission #: 3

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1582.8 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1582.8 tons/yr
5. Method of Compliance: Annual Operating Report (from fuel analysis).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information presented on this page represents the annual tpy limit for SO2 for this emission unit.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 5

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 7.8 lbs/hr	34.2 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor: 7.8	Units lbs/hr
Reference: Permit # PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): -7.8 lb/hr on oil (permit limit) -1.3 lb/hr on gas (permit limit) OIL: $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 34.2 \text{ TPY/CT}$ (8760 hours of operation) $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 8.5 \text{ TPY/CT}$ (25% Cap. factor)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 7.8 Units : lb/hour
4. Equivalent Allowable Emissions: 7.8 lbs/hr 34.2 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if distillate oil is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The potential emission rates are based on oil firing (worst-case). The tons per year limit given above is based on an individual CT operating at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.3 Units : lb/hour
4. Equivalent Allowable Emissions: 1.3 lbs/hr 5.7 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if natural gas is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 5
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 50 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 50 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): This page represents the annual VOC tpy limitation. The limit above represents the 75 deg. F condition. Information in #4 above reflects both distillate oil and natural gas operation for the 4 CTs.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 6

Pollutant Detail Information

1. Pollutant Emitted:	Sulfuric Acid Mist
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	67 lbs/hr 196 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	67 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters):	<p>-From the PSD permit and Site Certification: a maximum of 0.3 percent sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions</p> <p>- Annual permit limit: 196 TPY for all 4 CTs</p> <p>-67 lb/hr on oil (permit limit)</p> <p>-0.042 lb/hr on gas (permit limit)</p> <p>OIL: $([67 \text{ lb/hr/CT}]/[0.3\%]) * (0.2\%) * (8760 \text{ hr/yr}) / (2000) = 195.64 \text{ TPY/CT (8760 hours of operation)}$</p>
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	<p>This pollutant is requested to be deleted from the permit per FDEP Policy dated February 8, 1996. See Attachment PFLEU1_10.txt</p>

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 6

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 79 This limit is requested to be deleted. See Attachment PFLU1_12.txt for details.	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 7

Pollutant Detail Information

1. Pollutant Emitted:	Mercury
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0192 lbs/hr 0.084 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0192 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current Permit Limits:	
-0.0049 lb/hr on oil	
-0.0192 lb/hr on gas	
OIL:	
$(0.0049 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 0.005 \text{ TPY/CT (25\% Cap. factor)}$	
GAS:	
$(0.0192 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.084 \text{ TPY/CT (8760 hours of operation)}$	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 7

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 8

Pollutant Detail Information

1. Pollutant Emitted:	Fluoride
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0535 lbs/hr 0.23 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0535 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current permit limits:	
-0.0535 lb/hr on oil	
-NA on gas	
OIL:	
(0.0535 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.234 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 8

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 9

Pollutant Detail Information

1. Pollutant Emitted:	Beryllium
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0041 lbs/hr 0.018 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	0.0041 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	Current Permit Limits: -0.0041 lb/hr on oil -NA on gas OIL: (0.0041 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.018 TPY/CT (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 3 Pollutant #: 9

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):	
97	
Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 3

Visible Emissions Limitation #: 2

1. Visible Emissions Subtype: VE20	
2. Basis for Allowable Opacity Code(R/O):	RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other <input type="checkbox"/>
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr	
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation	
5. Visible Emissions Comment (limit to 200 characters): Oil Firing: Rule 62-210.700(1) allows excess emissions up to 2 hr / 24 hr for startup, shutdown and malfunction.	

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 3

Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE10
2. Basis for Allowable Opacity Code(R/O): RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation
5. Visible Emissions Comment (limit to 200 characters): The allowable opacity limits listed above are applicable to operation on natural gas only.

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 3
Continuous Monitor #: 2

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Carbon dioxide	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer:	Milton Roy	
Model Number:	3300	Serial Number: N4C0311T
5. Installation Date (DD-MON-YYYY):	11/22/94	
6. Performance Specification Test Date (DD-MON-YYYY):	11/14/95	
7. Continuous Monitor Comment (limit to 200 characters): The CO2 monitor provides % O2 data to the NOx monitor per 40 CFR 75 Appendix E, eqn E-3. CO2 is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the absence of a flow monitor.		

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 3
 Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Nitrogen Oxides	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer:	TECO	
Model Number:	42	Serial Number: 42D-49873-284
5. Installation Date (DD-MON-YYYY):	11/22/94	
6. Performance Specification Test Date (DD-MON-YYYY):	11/14/95	
7. Continuous Monitor Comment (limit to 200 characters):		
The CO2 monitor provides percent O2 data to the NOx monitoring system in accordance with 40 CFR 75 Appendix E, equation E-3.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 3

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM	C		
SO2	C		
NO2	C		
4. Baseline Emissions:			
PM	lbs/hr	195	tons/yr
SO2	lbs/hr	2243	tons/yr
NO2	2456 tons/yr		

5. PSD Comment (limit to 200 characters):
The Lauderdale facility underwent PSD review during the Repowering licensing in 1989-1990.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 3

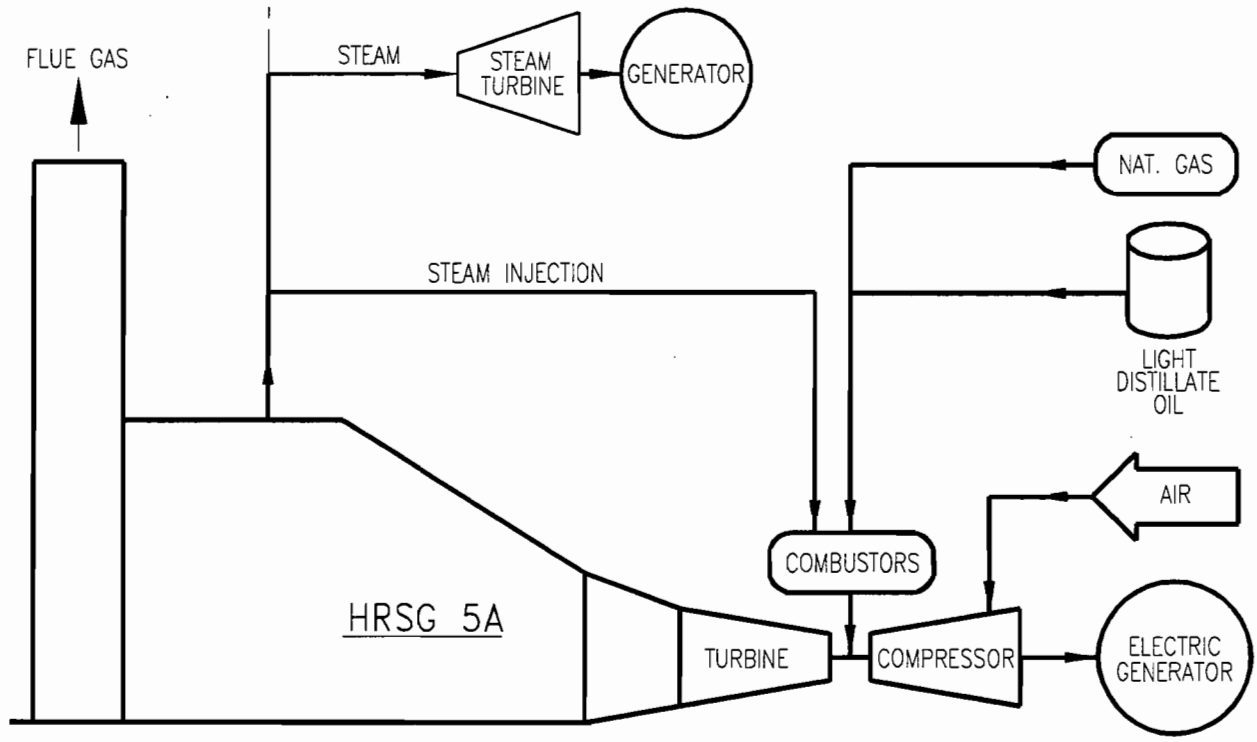
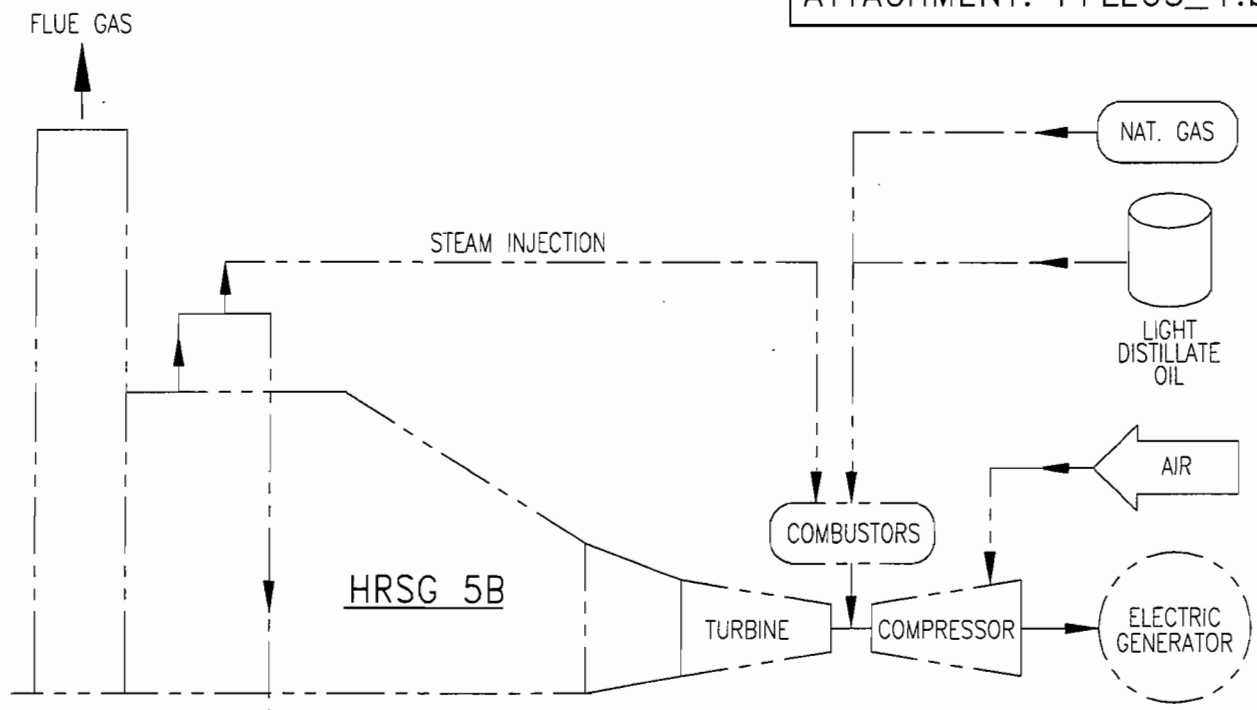
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU3_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU1_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PFLU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : NA Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU1_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : NA Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : NA Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : NA Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU1_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU1_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

TECHNICAL ACCEPTANCE		
ORG	BY	DATE
ENGINEERING ORGANIZATION		
WALKDOWN INFORMATION		
ORG	BY	DATE
AS-BUILT INFORMATION		



BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FLO05464	TITLE EMISSION UNIT FLOW DIAGRAM COMBUSTION TURBINE UNIT 5A ATTACHMENT NO. EU3
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FLO05464	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PFL4-M0104-YY	SHEET	1 OF 1	REV	0
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III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 4

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Combined Cycle Unit 5B- one CT exhausting through a HRSG.
2. Emissions Unit Identification Number: 038 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): Y
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): There are 4 identical combined-cycle combustion turbines at Lauderdale. Each CT is connected to an electrical generator, and each CT generates heat which produces steam in a heat recovery steam generator (HRSG). The steam from 2 HRSG's is then sent to a steam turbine-generator for additional electric power. The 4 combined-cycle CT's have a current annual aggregate heat input limitation of 54,129,421 mmBtu, and an aggregate heat input limitation of 14,426,844 mmBtu while firing distillate oil.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 06/09/93	
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):	
3. Package Unit: Manufacturer: Westinghouse	Model Number: MW501F
4. Generator Nameplate Rating: 231.25 MW	
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 1775.62 mmBtu/hr	
2. Maximum Incineration Rate:	lbs/hr tons/day
3. Maximum Process or Throughput Rate:	Units:
4. Maximum Production Rate:	Units:
5. Operating Capacity Comment (limit to 200 characters): The maximum heat input rate given in question #1 above is for natural gas fuel at 75 degrees F. The maximum heat input rate while firing light distillate oil is 1646.9 mmBtu/hour at 75 degrees F.	

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 4

40 CFR 60.332 (a)(1)	40 C.F.R. 72.9(a)(1)(iii)	40 C.F.R. 75.21(d)	DNRP 27-173(g)(1) (state only)
40 CFR 60.332 (b)	40 C.F.R. 72.9(a)(1)(i)	40 C.F.R. 75.21(e)	DNRP 27-173(g)(4) (state only)
40 CFR 60.332(f)	40 C.F.R. 72.9(a)(2)	40 C.F.R. 75.21(f)	DNRP 27-173(g)(5) (state only)
40 CFR 60.332(k)	40 C.F.R. 72.9(b)	40 C.F.R. 75.22	DNRP 27-173(g)(6) (state only)
40 CFR 60.333 (b)	40 C.F.R. 72.9(c)(1)	40 C.F.R. 75.24	DNRP 27-184 (state only)
40 CFR 60.334 (b)(1)(when firing oil)	40 C.F.R. 72.9(c)(2)	40 C.F.R. 75.30(a)(3)	DNRP 27-188 (state only)
40 CFR 60.334 (b)(2)(when firing natural gas)	40 C.F.R. 72.9(c)(3)(iii)	40 C.F.R. 75.32	DNRP 27-189 (state only)
40 CFR 60.334(a)	40 C.F.R. 72.9(c)(4)	40 C.F.R. 75.33	F.A.C. 62-204.800 (7)(d) (state only)
40 CFR 60.334(c)	40 C.F.R. 72.9(c)(5)	40 C.F.R. 75.36	F.A.C. 62-204.800 (b)37. (state only)
40 CFR 60.335	40 C.F.R. 72.9(d)	40 C.F.R. 75.4(a)(4)(i)	F.A.C. 62-204.800(12) (state only)
40 C.F.R. 60.11(a)	40 C.F.R. 72.9(e)	40 C.F.R. 75.4(b)	F.A.C. 62-204.800(13) (state only)
40 C.F.R. 60.11(b)	40 C.F.R. 72.9(f)	40 C.F.R. 75.4(g)	F.A.C. 62-204.800(14) (state only)
40 C.F.R. 60.11(c)	40 C.F.R. 72.9(g)(4)	40 C.F.R. 75.5	F.A.C. 62-210.650
40 C.F.R. 60.11(d)	40 C.F.R. 73.33	40 C.F.R. 75.53(a)	F.A.C. 62-210.700 (1)
40 C.F.R. 60.11(e)(2)	40 C.F.R. 73.35	40 C.F.R. 75.53(b)	F.A.C. 62-210.700 (4)
40 C.F.R. 60.12	40 C.F.R. 75 Appendix A-1	40 C.F.R. 75.53(c)	F.A.C. 62-210.700 (6)
40 C.F.R. 60.13(a)	40 C.F.R. 75 Appendix A-2	40 C.F.R. 75.53(d)(2)	F.A.C. 62-214.300
40 C.F.R. 60.13(d)(1)	40 C.F.R. 75 Appendix A-3	40 C.F.R. 75.54(a)	F.A.C. 62-214.320
40 C.F.R. 60.13(e)	40 C.F.R. 75 Appendix A-4	40 C.F.R. 75.54(b)	F.A.C. 62-214.330
40 C.F.R. 60.13(h)	40 C.F.R. 75 Appendix A-5	40 C.F.R. 75.54(d)	F.A.C. 62-214.340
40 C.F.R. 60.7(b)	40 C.F.R. 75 Appendix A-6	40 C.F.R. 75.55(c)	F.A.C. 62-214.350(2)
40 C.F.R. 60.7(f)	40 C.F.R. 75 Appendix B	40 C.F.R. 75.56	F.A.C. 62-214.350(3)
40 C.F.R. 60.8(c)	40 C.F.R. 75 Appendix C-1	40 C.F.R. 75.60(a)	F.A.C. 62-214.370
40 C.F.R. 60.8(e)	40 C.F.R. 75 Appendix C-2	40 C.F.R. 75.60(b)	F.A.C. 62-214.430
40 C.F.R. 72.20(a)	40 C.F.R. 75 Appendix D	40 C.F.R. 75.60(c)(3)	F.A.C. 62-296.320 (4)(b) (state only)
40 C.F.R. 72.20(b)	40 C.F.R. 75 Appendix F	40 C.F.R. 75.61(a)(1)	F.A.C. 62-296.800(2)(a)37 (as applicable) (state only)
40 C.F.R. 72.20(c)	40 C.F.R. 75 Appendix G-2	40 C.F.R. 75.61(a)(5)	F.A.C. 62-297.310(1)
40 C.F.R. 72.21(a)	40 C.F.R. 75 Appendix H	40 C.F.R. 75.62	F.A.C. 62-297.310(3)
40 C.F.R. 72.21(b)	40 C.F.R. 75.10(a)(1)	40 C.F.R. 75.63	F.A.C. 62-297.310(4)(a)1.
40 C.F.R. 72.21(d)	40 C.F.R. 75.10(a)(2)	40 C.F.R. 75.64(a)	F.A.C. 62-297.310(4)(b)
40 C.F.R. 72.22(a)	40 C.F.R. 75.10(a)(3)(i)	40 C.F.R. 75.64(b)	F.A.C. 62-297.310(4)(c)
40 C.F.R. 72.22(c)	40 C.F.R. 75.10(a)(4)	40 C.F.R. 75.64(c)	F.A.C. 62-297.310(4)(d)
40 C.F.R. 72.23	40 C.F.R. 75.10(b)	40 C.F.R. 75.64(d)	F.A.C. 62-297.310(5)
40 C.F.R. 72.24(a)	40 C.F.R. 75.10(c)	40 C.F.R. 75.65	F.A.C. 62-297.310(6)(a)
40 C.F.R. 72.30(a)	40 C.F.R. 75.10(f)	40 C.F.R. 75.66(a)	F.A.C. 62-297.310(6)(c)
40 C.F.R. 72.30(b)(2)	40 C.F.R. 75.10(g)	40 C.F.R. 75.66(b)	F.A.C. 62-297.310(6)(d)
40 C.F.R. 72.30(c)	40 C.F.R. 75.11(d)	40 C.F.R. 75.66(c)	F.A.C. 62-297.310(6)(e)
40 C.F.R. 72.30(d)	40 C.F.R. 75.12(a)	40 C.F.R. 75.66(d)	F.A.C. 62-297.310(6)(f)
40 C.F.R. 72.32	40 C.F.R. 75.12(b)	40 C.F.R. 75.66(g)	F.A.C. 62-297.310(6)(g)
40 C.F.R. 72.33(b)	40 C.F.R. 75.13(b)	40 C.F.R. 75.66(h)	F.A.C. 62-297.310(7)(a)1.
40 C.F.R. 72.33(c)	40 C.F.R. 75.14(c)	40 C.F.R. 77.3	F.A.C. 62-297.310(7)(a)3.
40 C.F.R. 72.33(d)	40 C.F.R. 75.15(c)	40 C.F.R. 77.5(b)	F.A.C. 62-297.310(7)(a)4.b.
40 C.F.R. 72.40(a)	40 C.F.R. 75.20(a)(5)	40 C.F.R. 77.6	F.A.C. 62-297.310(7)(a)5.
40 C.F.R. 72.40(b)	40 C.F.R. 75.20(b)	DNRP 27-173(a) (state only)	F.A.C. 62-297.310(7)(a)7.
40 C.F.R. 72.40(c)	40 C.F.R. 75.20(c)	DNRP 27-173(c) (state only)	F.A.C. 62-297.310(7)(a)9.
40 C.F.R. 72.40(d)	40 C.F.R. 75.20(g)	DNRP 27-173(d) (state only)	F.A.C. 62-297.310(7)(c)
40 C.F.R. 72.51	40 C.F.R. 75.21(a)	DNRP 27-173(e) (state only)	F.A.C. 62-297.310(8)
40 C.F.R. 72.90	40 C.F.R. 75.21(b)	DNRP 27-173(f) (state only)	
	40 C.F.R. 75.21(c)		

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 4

1. Identification of Point on Plot Plan or Flow Diagram: CT HRSG. stack 5B
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): NA
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 150 ft
7. Exit Diameter: 18 ft
8. Exit Temperature: 330 °F
9. Actual Volumetric Flow Rate: 2422969 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.165 North: 2883.571
14. Emission Point Comment (limit to 200 characters): The flow rate given is the design flow rate while firing light distillate oil at 40 degrees fahrenheit. The design flow rate while firing natural gas at 40 degrees fahrenheit is 2,419,751 acfm.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 4 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Light distillate oil burned in combined cycle CT 5B
2. Source Classification Code (SCC): 2-01-009-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 12.11
5. Maximum Annual Rate: 106084
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.3
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Max.annual rate reflects the annual heat input limitation of 14,426,844 mmBtu at 75 degrees Fahrenheit of operation on #2 oil, which is a permit limitation in the current PSD permit.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :/ Emission Unit #: 4 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Natural gas burned in combined cycle CT 5B
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: million cubic feet burned
4. Maximum Hourly Rate: 1.69
5. Maximum Annual Rate: 14814
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.0031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Natural gas and distillate oil may be co-fired, primarily during fuel switching (from oil to gas or from gas to oil.). The maximum annual rate is based on 100% load for 8760 hrs at 75 degrees F.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 4

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	EL
NOx	028	NA	EL
CO	NA	NA	EL
PM	NA	NA	EL
PM10	NA	NA	EL
VOC	NA	NA	EL
SAM	NA	NA	EL
FL	NA	NA	EL
H114	NA	NA	EL
H021	NA	NA	EL
H113	NA	NA	NS
H133	NA	NA	NS
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted:	Carbon Monoxide
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	100 lbs/hr 438 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	100 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	In current PSD permit.
Calculations:	
	- 100 lb/hr on oil (permit limit)
	- 89 lb/hr on gas (permit limit)
Note:	There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing:
OIL:	
	$(100 \text{ lb/hr/CT}) \cdot (8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 438 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 100 Units : lb/hour
4. Equivalent Allowable Emissions: 100 lbs/hr 438 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if oil is fired for more than 400 hours during the previous 12 months (Reference permit PSD-FL-145).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 138 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 1
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 89 Units : lb/hour
4. Equivalent Allowable Emissions: 89 lbs/hr 389.8 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 10) if natural gas operation is greater than 400 hours during the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 1
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1489 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1489 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit for CO. Also, the tpy given in field 4 reflects the "without ductburners" condition, and represents emissions from 4 combustion turbines.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides
2. Total Percent Efficiency of Control: 70 %
3. Potential Emissions: 422 lbs/hr 1848 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 422 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters): Oil Calculation: 422 lb/hour x 8760hours/year = 3,696,720 lb/year 3696720 / 2,000 lb/ton = 1848.4 tpy for one combustion turbine Natural Gas Calculation: 264 lb/hour x 8760 hours/year = 2,312,640 lb/year 2,312,640 / 2,000 lb/ton = 1156.3 tpy for one combustion turbine
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 2
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 422 Units : lb/hour
4. Equivalent Allowable Emissions: 422 lbs/hr 1848 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20) if oil operation > 400 hours in previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 2

Basis For Allowable Emission #: 2

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 264 Units : lb/hour
4. Equivalent Allowable Emissions: 264 lbs/hr 1156 tons/yr
5. Method of Compliance: Annual stack test (EPA Method 20)
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 135 The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 2
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4868 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 4868 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit currently in effect. In addition, the tpy value given in field 4 is reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted:	Particulate Matter - Total
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	58 lbs/hr 254 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	58 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	-58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) \cdot (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 3
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 3
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: Not required for natural gas firing.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 3
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: None
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 3

Pollutant Detail Information

1. Pollutant Emitted: Particulate Matter - PM10	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 58 lbs/hr	254 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor: 58	Units lbs/hr
Reference: Permit #PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5	
8. Calculation of Emissions (limit to 600 characters): -58 lb/hr on oil (permit limit) -14.7 lb/hr on gas (permit limit) Note: There are no annual emission limits or fuel usage limitations for individual CT's. Therefore, maximum potential emissions can be the maximum of oil firing: OIL: $(58 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 254.04 \text{ TPY/CT}$ (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 10
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 58 Units : lb/hour
4. Equivalent Allowable Emissions: 58 lbs/hr 254 tons/yr
5. Method of Compliance: Annual stack test method 5 or 17 only when oil firing > 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 The information given in fields 3 and 4 for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 10
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 14.7 Units : lb/hour
4. Equivalent Allowable Emissions: 14.7 lbs/hr 64.4 tons/yr
5. Method of Compliance: None required for natural gas firing
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 129 The information given in fields 3 and 4 for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 10
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 424.7 Units : tons/year
4. Equivalent Allowable Emissions: lbs/hr 424.7 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 181 The information on this page represents the annual tpy limit on PM/PM10 for this emission unit. Values in fields 3 and 4 above are reflective of the "without ductburners" condition.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 4

Pollutant Detail Information

1. Pollutant Emitted:	Sulfur Dioxide
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	538 lbs/hr 1571 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	538 Units lbs/hr
Reference:	Site Certification
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	<p>-From permit: a maximum of 0.3 % sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions</p> <p>-Permit limit for SO2: 538 lbs/hr/CT for oil and 4.9 lb/hr/CT for gas</p> <p>-Annual permit limit: 1,582 TPY for all CT's</p> <p>-Old permit limit for SO2 on natural gas 0.97 lb/hr/CT</p> <p>OIL: $([538 \text{ lb/hr/CT}]/[0.3\%]) \cdot (0.2\%) \cdot (8760 \text{ hr/yr}) / (2000) = 1571 \text{ TPY/CT (8760 hours of operation)}$ </p>
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	See Attachment PFLEU1_10.txt

**Information for Facility ID: 1 Emission Unit #: 4 Pollutant #: 4
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 538 Units : lb/hr
4. Equivalent Allowable Emissions: 538 lbs/hr 1571 tons/yr
5. Method of Compliance: Average composite of as-received samples - sulfur content of distillate oil using ASTM D-2880-71 or equivalent.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of distillate oil operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 4
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.9 Units : lbs/hr
4. Equivalent Allowable Emissions: 4.9 lbs/hr 21.46 tons/yr
5. Method of Compliance: Fuel analysis - For natural gas the customized fuel monitoring schedule is used. Please refer to the attached file Fuelmon.pcx for additional information.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 4
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1582.8 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 1582.8 tons/yr
5. Method of Compliance: Annual Operating Report (from fuel analysis).
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): Information presented on this page represents the annual tpy limit for SO2 for this emission unit.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 5

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 7.8 lbs/hr	34.2 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3): to tons/yr	
6. Emission Factor: 7.8	Units lbs/hr
Reference: Permit # PSD-FL-145	
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): -7.8 lb/hr on oil (permit limit) -1.3 lb/hr on gas (permit limit) OIL: $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000) = 34.2 \text{ TPY/CT (8760 hours of operation)}$ $(7.8 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 8.5 \text{ TPY/CT (25\% Cap. factor)}$	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 7.8 Units : lb/hour
4. Equivalent Allowable Emissions: 7.8 lbs/hr 34.2 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if distillate oil is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The potential emission rates are based on oil firing (worst-case). The tons per year limit given above is based on an individual CT operating at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.3 Units : lb/hour
4. Equivalent Allowable Emissions: 1.3 lbs/hr 5.7 tons/yr
5. Method of Compliance: Annual stack test using EPA Method 25A if natural gas is fired more than 400 hours in the previous 12 months.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The information given in fields 3 and 4 above for lb/hour emission rate is reflective of natural gas operation at 100% capacity factor.

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 5
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 50 Units : tons/yr
4. Equivalent Allowable Emissions: lbs/hr 50 tons/yr
5. Method of Compliance: Annual Operating Report
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): This page represents the annual VOC tpy limitation. The limit above represents the 75 deg. F condition. Information in #4 above reflects both distillate oil and natural gas operation for the 4 CTs.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 6

Pollutant Detail Information

1. Pollutant Emitted:	Sulfuric Acid Mist
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	67 lbs/hr 196 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	67 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	<p>-From the PSD permit and Site Certification: a maximum of 0.3 percent sulfur in fuel oil for hourly emissions and an average sulfur content of 0.2 percent for annual emissions</p> <p>- Annual permit limit: 196 TPY for all 4 CTs</p> <p>-67 lb/hr on oil (permit limit)</p> <p>-0.042 lb/hr on gas (permit limit)</p> <p>OIL: $([67 \text{ lb/hr/CT}]/[0.3\%]) * (0.2\%) * (8760 \text{ hr/yr}) / (2000) = 195.64 \text{ TPY/CT (8760 hours of operation)}$</p>
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	<p>This pollutant is requested to be deleted from the permit per FDEP Policy dated February 8, 1996. See Attachment PFLEU1_10.txt</p>

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 6

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters):	
79	
This limit is requested to be deleted. See Attachment PFLU1_12.txt for details.	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 7

Pollutant Detail Information

1. Pollutant Emitted: Mercury
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 0.0192 lbs/hr 0.084 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3): to tons/yr
6. Emission Factor: 0.0192 Units lbs/hr Reference: Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters): Current Permit Limits: -0.0049 lb/hr on oil -0.0192 lb/hr on gas OIL: $(0.0049 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) * (25\%) / (2000 \text{ lb/ton}) = 0.005 \text{ TPY/CT (25\% Cap. factor)}$ GAS: $(0.0192 \text{ lb/hr/CT}) * (8760 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 0.084 \text{ TPY/CT (8760 hours of operation)}$
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): See Attachment PFLEU1_10.txt

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 7

Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 8

Pollutant Detail Information

1. Pollutant Emitted:	Fluoride
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0535 lbs/hr 0.23 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	0.0535 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current permit limits:	
-0.0535 lb/hr on oil	
-NA on gas	
OIL:	
(0.0535 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.234 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 8
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	None required
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 9

Pollutant Detail Information

1. Pollutant Emitted:	Beryllium
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	0.0041 lbs/hr 0.018 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	0.0041 Units lbs/hr
Reference:	Permit #PSD-FL-145
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	
Current Permit Limits:	
-0.0041 lb/hr on oil	
-NA on gas	
OIL:	
(0.0041 lb/hr/CT)*(8760 hr/yr)/(2000) = 0.018 TPY/CT (8760 hours of operation)	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	
See Attachment PFLEU1_10.txt	

**Information for Facility_ID: 1 Emission Unit #: 4 Pollutant #: 9
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code:	Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units:	Units :
4. Equivalent Allowable Emissions:	lbs/hr tons/yr
5. Method of Compliance:	
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 97 Limit requested to be deleted pursuant to May 19, 1995 DARM Guidance Memorandum (DARM-PER/GEN-18)	

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : *1* Emission Unit #: *4*
Visible Emissions Limitation #: *1*

1. Visible Emissions Subtype: VE10
2. Basis for Allowable Opacity Code(R/O): RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation
5. Visible Emissions Comment (limit to 200 characters): The allowable opacity limits listed above are applicable to operation on natural gas only.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 4
Visible Emissions Limitation #: 2

1. Visible Emissions Subtype: VE20	
2. Basis for Allowable Opacity Code(R/O):	RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hr	
4. Method of Compliance Code: Annual Method 9 Visible Emission Evaluation	
5. Visible Emissions Comment (limit to 200 characters): Oil Firing: Rule 62-210.700(1) allows excess emissions up to 2 hr / 24 hr for startup, shutdown and malfunction.	

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 4
Continuous Monitor #: 2

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):	Carbon dioxide	
3. CMS Requirement Code(R/O):	RULE	Rule / Other
4. Monitor Information:		
Manufacturer:	Milton Roy	
Model Number:	3300	Serial Number: N4C0318T
5. Installation Date (DD-MON-YYYY):	11/22/94	
6. Performance Specification Test Date (DD-MON-YYYY):	11/14/95	
7. Continuous Monitor Comment (limit to 200 characters):	The CO2 monitor provides % O2 data to the NOx monitor per 40 CFR 75 Appendix E, eqn E-3. CO2 is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the absence of a flow monitor.	

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 4
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:			
2. Pollutant(s):		Nitrogen Oxides	
3. CMS Requirement Code(R/O):		RULE	Rule / Other
4. Monitor Information:			
Manufacturer: TECO		Serial Number: 42D-49858-284	
Model Number: 42			
5. Installation Date (DD-MON-YYYY): 11/22/94			
6. Performance Specification Test Date (DD-MON-YYYY): 11/14/95			
7. Continuous Monitor Comment (limit to 200 characters): The CO2 monitor provides percent O2 data to the NOx monitoring system in accordance with 40 CFR 75 Appendix E, equation E-3.			

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 4

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 1

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM	C		
SO2	C		
NO2	C		
4. Baseline Emissions:			
PM	lbs/hr	195	tons/yr
SO2	lbs/hr	2243	tons/yr
NO2	2456 tons/yr		

5. PSD Comment (limit to 200 characters):
The Lauderdale facility underwent PSD review during the Repowering licensing in 1989-1990.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit # : 4

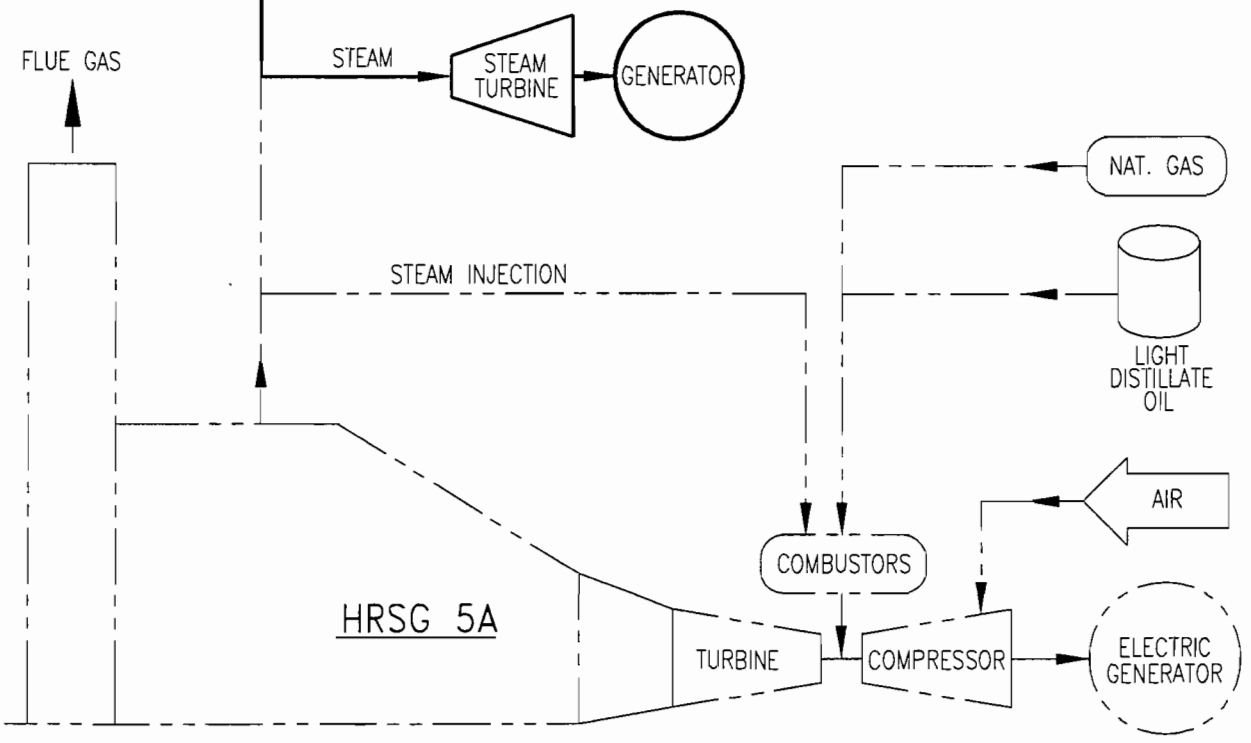
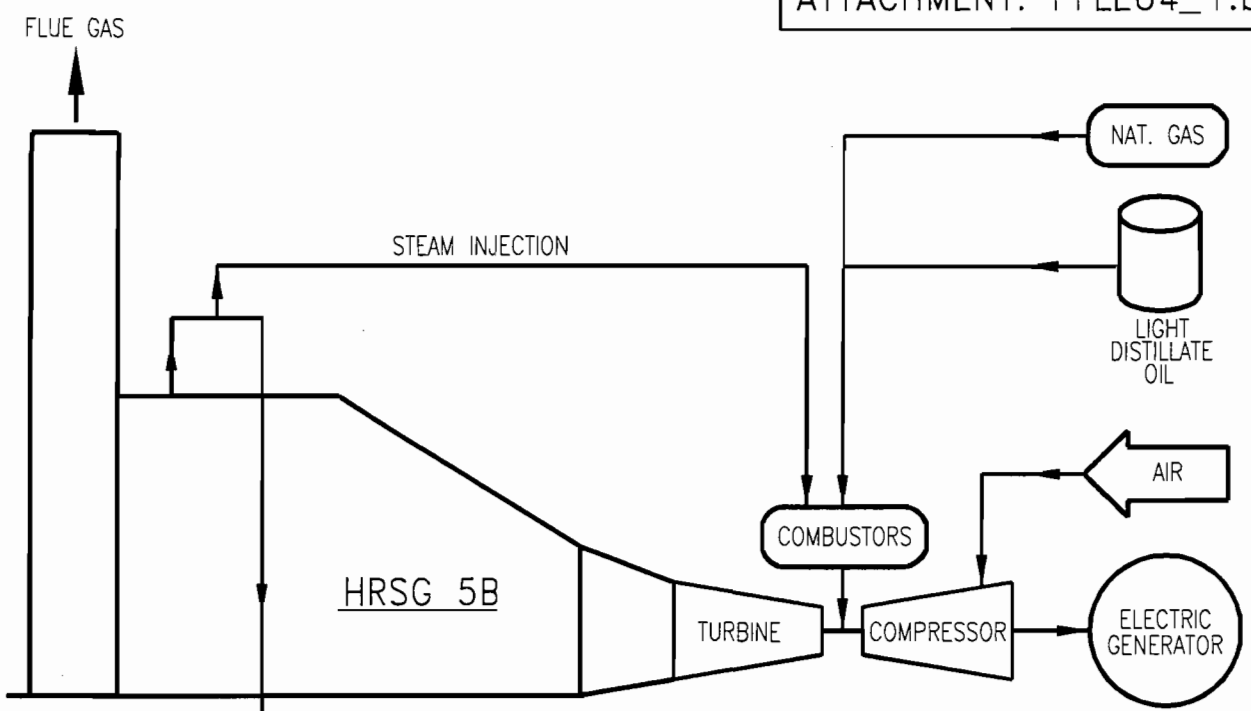
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU4_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU1_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PFLU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : NA Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU1_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : NA Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : NA Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : NA Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU1_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU1_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

TECHNICAL ACCEPTANCE		
ORC	BY	DATE
ENGINEERING ORGANIZATION		
ORC	BY	DATE
WALKDOWN INFORMATION		
ORC	BY	DATE
AS-BUILT INFORMATION		
ORC	BY	DATE



BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005465	TITLE EMISSION UNIT FLOW DIAGRAM COMBUSTION TURBINE UNIT 5B ATTACHMENT NO. EU4
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005465	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PFL4-M0105-YY	SHEET	1 OF 1	REV	0
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III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 5

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): GT Site 1- GT's 1-12
2. Emissions Unit Identification Number: 003 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): The generator nameplate rating for the gas turbines is the KVA of one gas turbine (out of a bank of 12) at a 40 degree F condition.. As with most gas turbines, ambient temperature is inversely related to heat input capability and is inversely related to megawatt output for these machines.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): None
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 08/01/70	
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):	
3. Package Unit: Manufacturer: Pratt & Whitney	Model Number: GG4A
4. Generator Nameplate Rating: 42 MW	
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 8424 mmBtu/hr	
2. Maximum Incineration Rate:	lbs/hr tons/day
3. Maximum Process or Throughput Rate: Units:	
4. Maximum Production Rate: Units:	
5. Operating Capacity Comment (limit to 200 characters): The emission unit has a combined maximum heat input rate of 8,424 mmBtu/hr for 12 GTs. The NOx RACT permit (AO 06 148760) has limited the annual heat input to 7379×10^9 Btu/year.	

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:			
hours/day	days/week		
weeks/yr	8760 hours/yr		

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

Emission Unit Information Section ____ of ____

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 5

F.A.C. 62-210.700 (1) F.A.C. 62-210.700 (4) F.A.C. 62-210.700 (5) F.A.C. 62-210.700 (6)	F.A.C. 62-296.320(4)(b) F.A.C. 62-296.570(2) F.A.C. 62-296.570(3) F.A.C. 62-296.570(4)(a)	F.A.C. 62-296.570(4)(b)5. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(2)(a) F.A.C. 62-297.310(4)(a)2.	F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)1. F.A.C. 62-297.310(7)(a)3. F.A.C. 62-297.310(7)(a)4.a. F.A.C. 62-297.310(7)(a)8. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT1
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 45 ft
7. Exit Diameter: 7.78 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.241 North: 2883.608
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 1. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT2
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 45 ft
7. Exit Diameter: 7.78 ft
8. Exit Temperature: °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.271 North: 2883.608
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 2. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT3
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.241 North: 2883.637
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 3. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / **Emission Unit # :5**

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT4
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.271 North: 2883.637
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 4. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT5
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.241 North: 2883.661
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 5. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT6
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.271 North: 2883.661
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 6. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT7
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.305 North: 2883.608
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 7. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT8
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.334 North: 2883.608
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 8. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / Emission Unit # :

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT9
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.305 North: 2883.637
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 9. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / Emission Unit # : 5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT10
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.334 North: 2883.637
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 10. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID / Emission Unit # : 5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT11
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.304 North: 2883.661
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 11. GT's 1-12 are regulated collectively as a bank of 12.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :5

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT12
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.334 North: 2883.661
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT 12. GT's 1-12 are regulated collectively as a bank of 12.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 5 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (1-12) burning distillate oil.
2. Source Classification Code (SCC): 2-01-001-01
3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 61.94
5. Maximum Annual Rate: 54260.5
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Max. Annual Rate information is based on heat input limitation which = to a 10% capacity factor limit for the bank of 12 per the NOx RACT permit.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 5 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (1-12) burning natural gas.
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 8.023
5. Maximum Annual Rate: 7028.02
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.000031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Max. Annual Rate is based on heat input limitation which is = to a 10% capacity factor limit for the bank of 12 per NOx RACT permit.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :/ Emission Unit #: 5 Segment #: 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (1-12) burning methane.
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 8.023
5. Maximum Annual Rate: 7028.02
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.000031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): The GTs may use 150-lb methane bottles to assist liquid fuel startups. Information provided is for natural gas, since it is mostly methane.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 5

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	NS
NOx	NA	NA	EL
CO	NA	NA	NS
PM	NA	NA	NS
PM10	NA	NA	NS
SAM	NA	NA	NS
VOC	NA	NA	EL
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 28.64 lbs/hr 12.54 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.0034 Units lb/mmBtu Reference: Permit AO 06-230614
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters): 0.0034 lb/mmBtu x 8424 mmBtu/hour = 28.6416 lb/hour for one bank of twelve gas turbines 28.6416 lb/hour x 876hours/year = 25090 lb/year Emissions calculated at 40 degrees Fahrenheit for a maximum of 876 hours of operation while firing natural gas fuel.
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): The NOx RACT permit limits the heat input to an equivalent of 876 hours per year of operation. Note that any individual GT may operate up to 8760 hours per year.

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.0013 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 10.53 lbs/hr 4.8 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years on any of the gas turbines while firing distillate oil.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 125 Emission limits for VOC come from the air construction permit AC 06-179848. Emissions given above are for fuel oil operation.

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.0034 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 28.64 lbs/hr 12.54 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years while firing natural gas fuel.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 127 Emission limits for VOC come from the air construction permit AC 06-179848. Emissions given above are for natural gas operation

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 5
Basis For Allowable Emission #: 3**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 57.28 Units : lbs/hour
4. Equivalent Allowable Emissions: 57.28 lbs/hr 25.09 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years while firing natural gas fuel.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 115 This page represents the VOC emission limit for all 24 gas turbines operating concurrently firing natural gas fuel.

Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 5
Basis For Allowable Emission #: 4

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 21.06 Units : lbs/hour
4. Equivalent Allowable Emissions: 21.06 lbs/hr 9.22 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years while firing natural gas fuel.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 120 This page represents the combined VOC emissions limit for all 24 gas turbines operating concurrently firing #2 fuel oil.

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 5
Basis For Allowable Emission #: 5**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 99.92 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 99.92 tons/yr
5. Method of Compliance: Annual tracking of VOC emissions from solvents, gas turbines and fuel oil storage tanks.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 161 Annual combined emission limit of 99.92 TPY VOC from solvent useage, fuel oil storage tanks and gas turbines 1 - 24 is given in construction permit AC-06-179848.

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted:	NOx
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	7572 lbs/hr 3316.5 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	0.9 Units lb/mmBtu Reference: Rule 62-296.570(4)(b)5. and NOx RACT Permit AO06-148760
7. Emissions Method Code: (0,1, 2, 3, 4, 5):	0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	$(0.9 \text{ lb/mmBtu}) * (702 \text{ mmBtu}) = 631.8 \text{ lb/hr}$ $(631 \text{ lb/hr/GT}) * (12 \text{ GTs}) = 7,572 \text{ lb/hr}$ $(7,572 \text{ lb/hr}) * (876 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 3,316.5 \text{ TPY}$ Emissions calculated at 40 deg. F. for a max. of 876 hrs of operation.
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	The NOx RACT permit limits heat input to this EU to an equivalent of 876 hrs / yr of operation. However, any individual GT can operate up to 8760 hr / yr.

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 2
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: NOx RACT
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.9 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 631 lbs/hr 2763.78 tons/yr
5. Method of Compliance: Stack test once every five (5) years, using EPA Method 7E
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 124 Emission limits (per GT) are from rule 62-296.570(4)(b)5.,F.A.C.; oil firing; one GT test / 5 yrs per Rule 62-297.340(1)(h).

**Information for Facility_ID: 1 Emission Unit #: 5 Pollutant #: 2
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: NOx RACT
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.5 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 351 lbs/hr 1537.38 tons/yr
5. Method of Compliance: Stack test once every five (5) years, using EPA Method 7E
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 Emission limits (per GT) are from rule 62-296.570(4)(b)5.,F.A.C.; natural gas firing; one GT test / 5 yrs per Rule 62-297.340(1)(h).

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 5
Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE20			
2. Basis for Allowable Opacity Code(R/O):		Rule	<input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity:			
Normal Conditions: 20		% Exceptional Conditions: 100 %	
Maximum Period of Excess Opacity Allowed: 60 min/hr			
4. Method of Compliance Code: Pursuant to rule 62-297.340(1)(h), F.A.C., at least one visible emissions compliance test shall be conducted on all twenty-four combustion turbines every five years, coinciding with the term of the operation permit for these turbines. The visible emissions compliance test shall be conducted using EPA Method 9 in accordance with 40 CFR 60, Appendix A. At least one quarter of the compliance tests shall be conducted while burning fuel oil and at least one quarter of the compliance tests shall be conducted while burning natural gas. Each visible emissions compliance test shall be conducted while the combustion turbine is operating at 90 - 100 percent of its capacity.			
5. Visible Emissions Comment (limit to 200 characters):			
Language in Method of Compliance Code, is from the recently-revised AC permit for these gas turbines (AC 06-179848). Excess emissions are allowed per Rule 62-210.700(1)			

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit #: 5
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): This emission unit is not required to install continuous monitors because it is exempted per 40 CFR 72.6(b)(1).		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 5

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM	U
SO2	U
NO2	U

4. Baseline Emissions:

PM	1162.51 lbs/hr	509.18	tons/yr
SO2	4387.5 lbs/hr	1921.73	tons/yr
NO2	3316.5 tons/yr		

5. PSD Comment (limit to 200 characters):

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 5

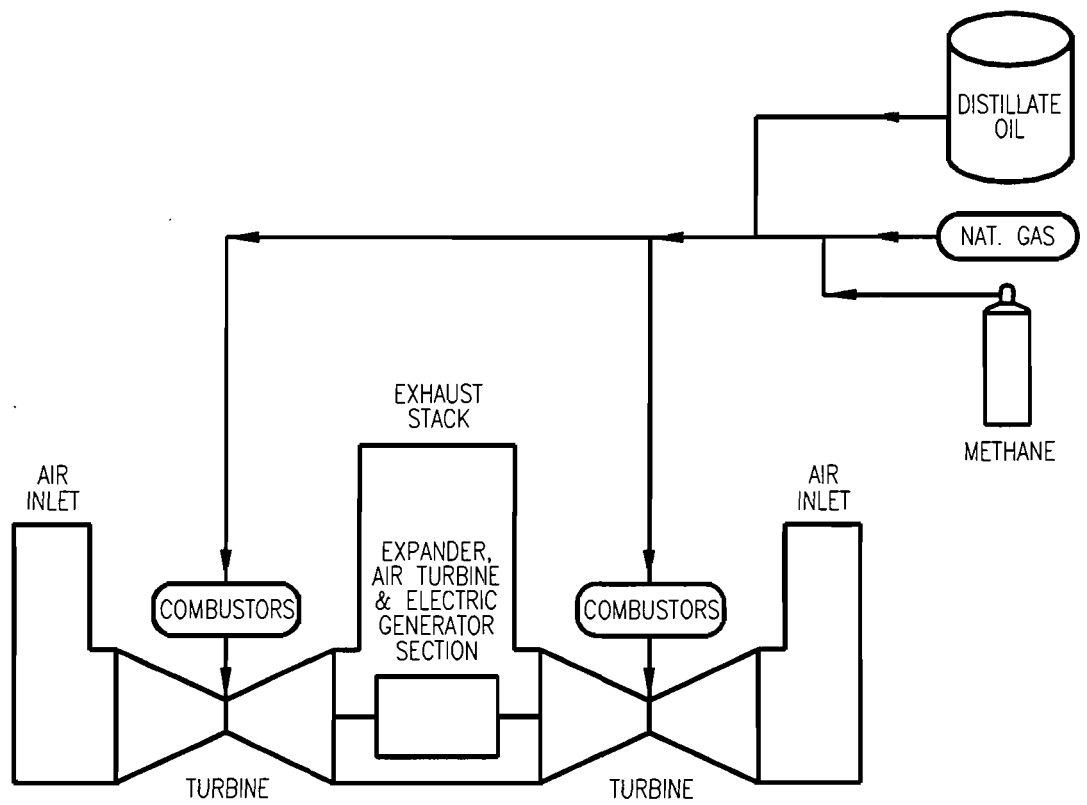
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU5_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU6_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : NA Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU6_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU6_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU6_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : PFLU6_11.txt Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU6_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE		
ORG	BY	DATE	ORG	BY	DATE
AS-BUILT INFORMATION			ENGINEERING ORGANIZATION		
ORG	BY	DATE			



TYPICAL GAS TURBINE ARRANGEMENT

NOTE:
THIS EMISSION UNIT SECTION
CONTEMPLATES THE ENTIRE BANK
OF TWELVE GAS TURBINES.

	SYSTEM	DISCIPLINE	PLANT/UNIT
	SCALE	CAD FILE NAME	TITLE
	DRAWING SIZE	FPL ARCHIVE NAME	
	N/A	FL005466	LAUDERDALE PLANT EMISSION UNIT FLOW DIAGRAM UNITS EU5-GT1 THRU GT12 ATTACHMENT NO. EU5
	A (8.5X11)	FL005466	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

Attachment PFLU5_2.txt

Fuel Analysis
Natural Gas Analysis (typical)²

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
Specific gravity(@ 60° F)	0.887	none
Heat content (Btu/cu ft)	950 - 1124	none
% sulfur (grains/CCF)	0.43 ¹	1 grain / ccf
% nitrogen (by volume)	0.8	none
% ash	negligible	none

*Note: The values listed are "typical" values based upon information supplied to FPL by Florida Gas Transmission (FGT). However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

(1) Data from laboratory analysis

(2) The values are "typical" based upon the following:

- Information gathered by FPL through laboratory analysis, and
- FPL's fuel purchasing specifications. It should be noted that the analytical results obtained from grab samples taken at any given time may vary from those listed.

Attachment PFLU5_2.txt**Fuel Analysis
No. 2 Distillate oil (typical)³**

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F)	35.0 ²	30 - 40 ¹
Heat content (MBtu/bbl)	5,700 - 5,800 ²	none
% sulfur	0.3 - 0.5 ¹	0.5 maximum ¹
% nitrogen	no specification	none
% ash	<0.01 ²	0.01 ¹

Footnotes:

(1) Data taken from FPL fuel specifications.

(2) Data taken from laboratory analysis.

(3) The values are "typical" based upon the following:

- Information gathered by FPL through laboratory analysis, and
- FPL's fuel purchasing specifications. It should be noted that the analytical results obtained from grab samples taken at any given time may vary from those listed.

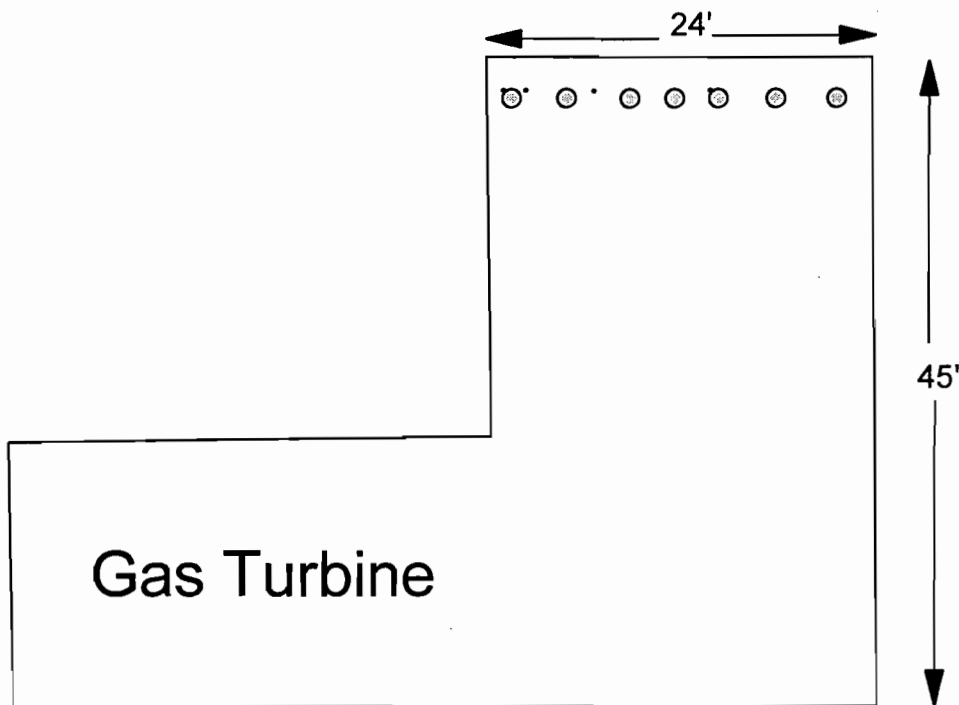
FLORIDA POWER & LIGHT CO,
STACK SAMPLING FACILITIES
SIMPLE-CYCLE GAS TURBINES

Attachment PFLU5_4.bmp

Natural Gas & Distillate Oil Stationary Gas Turbines

Stack Specifications

Sampling Dimensions: 16' x 24'
Sampling Area: 384 sq ft.
sampling port depth: 6.0 inches
No. of ports: 7, 4" diameter



Access to sampling ports is provided by temporary scaffolding erected prior to testing. There are no external probe supports. Internal support is provided by angle iron installed inside the stack. AC power is available at the stack base.

Note: Units 7 and 21 are the only gas turbine units with sampling ports

Attachment PFLU5_6.txt

Procedures for Startup and Shutdown - Simple-Cycle Gas Turbines

The aircraft gas turbines do not currently employ any hardware for monitoring or control of emissions due to the fact that they are "peaking" units which have a combined annual capacity factor limitation of 10%. Therefore, the only method for determining excess emissions at present is visual (EPA Method 9 Opacity Readings).

All FPL operators undergo extensive training prior to operating FPL generating equipment. This training includes an overview of plant emission limits and best operational practices undertaken in the event excess emissions are encountered.

If excess emissions (e.g. opacity) are exhibited during startup of a gas turbine unit, corrective actions may include fuel switching, changing from automatic to manual operational control or shutting down the unit to investigate the cause of the opacity problem.

Attachment PFLU5_10.txt

Alternative Methods of Operation

Each of the 12 gas turbines will be operated independently from any other and on either natural gas fuel or light distillate oil. FPL may operate from one to twelve gas turbine units at any time, and in any combination. Bottled methane gas may sometimes be used to assist the startup of units on distillate oil.

Air operating permit #AO 06-148760 (NOx RACT) has limited the annual heat input to the bank of twelve gas turbines to 7379×10^{12} Btu, which is approximately equivalent to a 10% capacity factor.

Each gas turbine may operate from zero to 702 mmBtu per hour, which is equivalent to 8,424 mmBtu/hour for the bank of twelve.

There are currently three permits which govern the operation of the simple-cycle gas turbines; Air Operating permit # AO-06-230614 and Air Construction permit #AC-06-179848, govern all 24 gas turbines, and Air Operating Permit #AO-06-148760 (NOx RACT), governs units 1 through 12 only.

The Air Operating permit (AO-06-230614) restricts emissions of VOC's from the simple-cycle gas turbines, six fuel oil storage tanks, and solvent useage. The annual combined limitation from all the aforementioned sources is 99.92 TPY.

The NOx RACT permit (AO-06-148760) limits the emissions of NOx in terms of both lb/hr and lb/MMBtu and imposes an annual heat input limitation of 7379×10^{12} Btu (10% capacity factor) for all 12 simple-cycle gas turbines. Note that any individual gas turbine may operate up to 8760 hours in any given year, so long as the aggregate heat input for all 12 GT's does not exceed the annual heat input limitation imposed by the NOx RACT permit, and the NOx and VOC emission rates are not exceeded.

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Attachment PFLU5_12.txt

Identification of Additional Applicable Requirements

Applicable Requirements as defined in Rule 62-210.200(29) not identified in Section D of this emission unit section are included in this attachment of the application. Any air operation permit issued by the Department (or local program designee) and included in this attachment is provided for information purposes. The specific conditions of the operating permit are not Applicable Requirements as defined in Rule 62-210.200(29) unless implementing a specific Applicable Requirement of the Department's rules (e.g. emission limitations and consent orders).

(The following specific conditions were taken from the Air Operating Permits AO 06-230614, AO 06-253684, and the Air Construction Permit AC 06-179848). *Note that the combined-cycle combustion turbines are not covered by the referenced permits or the following permit conditions.*

1. The maximum volatile organic compounds (VOC) emissions and volume of organic liquids handled by the tanks shall not exceed the following:

Vessel	Organic Liquid	Annual Throughput (Gallons)	Emissions (TPY VOC)
No. 2 Storage Tank	Jet A fuel/No.2 Dist. fuel oil	54,260,842	2.33
No. 3 Storage Tank	Jet A fuel	106,079,730	4.46
No. 4 Storage Tank	None	0	0
No. 5 Storage Tank	Jet A fuel/No. 2 fuel oil	54,260,842	2.29
Gas Turbine Dump Tanks	No. 2 fuel oil	300,000	0.003
Fuel Oil Metering Tanks	None	0	0
Gasoline Storage Tank	Gasoline	10,000	0.106
Diesel Fuel Storage Tank	Diesel Fuel	5,000	0.001

* If Tank No. 2 is used to supply Jet A fuel to the combustion turbines, the total Jet A fuel handled by both Tanks NOs. 2 and 3 shall not exceed 106,079,730 gallons per year and the sum of the VOC emissions from both Tanks NOs. 2 and 3 shall not exceed 6.79 tons per year.

FPL maintains records documenting the throughput and VOC emissions from the listed tanks.

2. The permittee shall keep records of the following for at least three years:

- a) The amount of light distillate fuel oil obtained for the plant.
- b) The amount of NO. 2 fuel oil obtained for the plant
- c) The throughput for fuel storage tank No. 2, No. 3, fuel storage tank No. 5, gas turbine dump tanks, gasoline storage tanks, and diesel fuel storage tank.

FPL maintains records as required.

3. Pursuant to Rule 62-297.340(1)(d), F.A.C., a visible emissions compliance test shall be conducted on each combustion turbine that operates for more than 400 hours in a federal fiscal year. At least one turbine shall be tested per year. Pursuant to Rule 62-297.340(1)(h), F.A.C., at least one visible emissions compliance test shall be conducted on all twenty-four combustion turbines every five years, coinciding with the term of the operation permit for these turbines.

The visible emissions compliance test shall be conducted using EPA Method 9 in accordance with 40 CFR 60 Appendix A. At least one quarter of the tests shall be conducted while burning fuel oil and at least one quarter shall be conducted while burning natural gas. Each visible emissions compliance test shall be conducted while the combustion turbine is operating at 90 - 100 percent of its capacity.

This is a recent modification to the air construction and air operating permits (July 30, 1995). FPL has tested the GT's in accordance with the old (pre-modification) permit conditions, and has begun the visible emission testing as specified by the current condition.

4. The VOC emission in TPY from all stationary tanks at this facility shall be calculated annually by the procedures described in AP-42, Emissions Factors, Section 4.3, Storage of Organic Liquids. Actual throughput and meteorological data shall be used for these calculations.

FPL has performed the required VOC emission calculations and has reported same in the Annual Operating Reports.

5. VOC emissions from each gas turbine shall not exceed 0.0013 lbs/mmBtu when the turbine is burning No. 2 fuel oil and 0.0034 lb/mmBtu when the turbine is burning natural gas. When both fuels (oil and gas) are burned together, the allowable VOC emissions shall be prorated.

FPL has performed stack testing on representative gas turbines to demonstrate compliance with the emission limits given.

6. Total VOC emissions from the 24 gas turbines when operating at the permitted capacity shall not exceed 57.28 lb/hour when the units are burning natural gas and 21.06 lb/hour when the units are burning oil. When both fuels are burned in the turbines at the same time, the allowable emissions shall be prorated.

FPL has performed stack testing on representative gas turbines to demonstrate compliance with the emission limits given.

7. Visible emissions shall not exceed 20% opacity.

FPL has Visible Emission Evaluation (VEE) records documenting the opacity of the gas turbines.

8. The permittee shall keep records of the type and quantity of fuel, GPH of oil and mmcf/hour of natural gas, used by each bank of turbines (GT's 1-12 and 13-24) for at least three (3) years. Usage may be determined on the basis of time of operation versus total fuel consumption for each block of 12 units.

FPL maintains records as required.

9. The VOC emission factors for the gas turbines shall be confirmed every five (5) years by EPA Method 25A tests as described in 40 CFR 60, Appendix A (July 1, 1988) on any of the gas turbines while burning 100% natural gas and while burning 100% No. 2 fuel oil.

FPL has performed the required emission factor confirmation testing, and submitted reports to the Department and Broward County.

10. The use of solvents for maintenance of the existing facility shall be tracked and controlled during the calendar year. The VOC emissions from solvents shall be calculated by the following method: The solvent volume loss shall be equal to the total solvent volume purchased/in stock minus the solvent volume reclaimed/disposed of offsite. The solvent volume loss shall then be multiplied by the emission factor (mass VOC/unit of solvent) to get a TPY value. The total solvent TPY emission value will be added to all other VOC sources to ensure compliance with Specific Condition 12.

FPL has maintained solvent usage records and calculations with respect to calculating VOC emissions from solvents. Such information has been included in the Annual Operating Reports.

11. The permittee shall keep records of the type and quantity of solvents, in TPY used during maintenance throughout this plant for a minimum of three (3) years.

FPL maintains the required records.

12. The total VOC emissions from all sources at this facility shall not exceed 99.92 TPY.

FPL has calculated VOC emissions from the emission units that are referenced by the permit condition. Note that the combined-cycle combustion turbine VOC emissions are not included in the 99.92 TPY VOC limit.

13. The VOC emissions shall be determined annually by adding the VOC emissions from each source at this facility for each calendar year and included in the annual operating report.

FPL has performed the required calculations, and has submitted the information in previous Annual Operating Reports.

14. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance stack testing.

FPL has performed the required notifications in the allotted time frame.

15. On or before March 1 of each calendar year, a completed DEP Form 62-210.900(4), Annual Operations Report Form for Air Emissions sources, shall be submitted to the Department. This shall include the annual VOC emissions for all air pollution sources at this facility.

FPL has prepared and submitted the Annual Operating Reports as required for the Lauderdale facility, including the required VOC emissions information.

16. Copies of all reports, test, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Protection, Southeast District Office and the Broward County Department of Natural Resource Protection.

FPL has submitted copies of all reports, notifications, etc.. as required by the permit condition.

17. In addition to the requirements of General Condition No. 8 of this permit, a written quarterly report shall be submitted to the Department of all opacity exceedances of emission limitations specified in Florida Administrative Code Rule 62-210.700 and 62-296.310. The report shall state the cause, period of noncompliance, and steps taken for corrective action and/or prevention of recurrence. If the opacity level cannot be determined for any reason, the report shall state the cause, duration, and action taken. All recorded data shall be maintained on file by Florida Power & Light for not less than three (3) years and made available to the Department upon request.

FPL has prepared and submitted the subject quarterly excess emissions reports in compliance with this permit condition.

(The following specific conditions were taken from the Air Operating Permits AO 06-148760 and AO 06-148761), which are the "NOx RACT" permits.

1. The total fuel firing rate for all twelve gas turbines shall not exceed 8,424 mmBtu/hour during fuel oil firing or natural gas firing. Annual heat input for all twelve gas turbines shall not exceed 7379×10^9 Btu.

For clarity, FPL suggests that the phrase "all twelve gas turbines" be replaced with the phrase "each bank of twelve gas turbines (units 1 - 12, and 13 - 24)".

2. NOx emissions from each gas turbine shall not exceed the following limits:

	<u>Natural Gas</u>	<u>Fuel Oil</u>
lbs/mmBtu	0.50	0.90
lbs/hour	351	631

These limits shall be effective January 1, 1995, and shall apply at all times except during periods of startup, shutdown, or malfunction as provided by F.A.C. Rule 62-210.700.

3. Before May 31, 1995, NOx emission compliance for each fuel shall be demonstrated by stack tests on one representative turbine unit using EPA Method 20 from 40 CFR 60 Appendix A and conducted at no less than 90% of the maximum hourly operating load. The Department's Southeast District Office and the Broward County Department of Natural Resource Protection shall be notified at least 15 days prior to each test. Results of the performance tests shall be reported to the Department within 45 days of test completion. Testing frequency for future tests will be determined upon review of the performance test results.

FPL has performed the required testing and submitted the required reports to the Department and to Broward County. FPL requests that this specific condition be deleted from the permit.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 6

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 1

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): GT Site 2- GTs 13-24
2. Emissions Unit Identification Number: 015 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): The generator nameplate rating for the gas turbines is reflective of one gas turbine (out of 12) at a 40 degree F condition. As with most gas turbines, ambient temperature is inversely related to heat input capability and is inversely related to megawatt output for these machines.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 08/01/72	
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):	
3. Package Unit: Manufacturer:	Model Number:
4. Generator Nameplate Rating: 42 MW	
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 8424 mmBtu/hr	
2. Maximum Incineration Rate:	lbs/hr tons/day
3. Maximum Process or Throughput Rate:	Units:
4. Maximum Production Rate:	Units:
5. Operating Capacity Comment (limit to 200 characters): The emission unit has a combined maximum heat input rate of 8,424 mmBtu/hr for 12 GTs. The NOx RACT permit (AO 06 148760) has limited the annual heat input to 7379×10^9 Btu/year.	

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

Emission Unit Information Section ____ of ____

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 6

F.A.C. 62-210.700 (1) F.A.C. 62-210.700 (4) F.A.C. 62-210.700 (5) F.A.C. 62-210.700 (6)	F.A.C. 62-296.320(4)(b) F.A.C. 62-296.570(2) F.A.C. 62-296.570(3) F.A.C. 62-296.570(4)(a)	F.A.C. 62-296.570(4)(b)5. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(2)(a) F.A.C. 62-297.310(4)(a)2.	F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)1. F.A.C. 62-297.310(7)(a)3. F.A.C. 62-297.310(7)(a)4.a. F.A.C. 62-297.310(7)(a)8. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT13
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.261 North: 2884.044
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT13. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # : 6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT14
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.29 North: 2884.045
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT14. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT15
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.26 North: 2884.068
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT15. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT16
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.29 North: 2884.069
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT16. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID I Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT17
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.306 North: 2884.045
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT17. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and TypeInformation for Facility-ID Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT18
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.336 North: 2884.046
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT13. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # : 6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT19
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.305 North: 2884.069
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT19. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT20
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.335 North: 2884.07
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT20. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT21
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively .
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.351 North: 2884.047
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT21. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT22
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.381 North: 2884.048
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT22. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # : 6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT23
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.35 North: 2884.071
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT23. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :6

1. Identification of Point on Plot Plan or Flow Diagram: Simple-cycle GT24
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): This EU is comprised of 12 identical simple-cycle gas turbine units, regulated collectively.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : v
6. Stack Height: 44 ft
7. Exit Diameter: 15.6 ft
8. Exit Temperature: 860 °F
9. Actual Volumetric Flow Rate: 1069740 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.38 North: 2884.072
14. Emission Point Comment (limit to 200 characters): Emission point UTM coordinates are for simple cycle GT24. GT's 13-24 are regulated collectively as a bank of 12 GT's.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 6 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (13-24) burning No. 2 oil.
2. Source Classification Code (SCC): 2-01-001-01
3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 61.94
5. Maximum Annual Rate: 54260.5
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.05
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Maximum Annual Rate information provided in #5 above, includes a 10% capacity factor limit for the bank of 12 mandated by air operation permit A006-148760 (NOx RACT).

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 6 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (13-24) burning natural gas.
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 8.023
5. Maximum Annual Rate: 7028.02
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.000031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Maximum Annual Rate information given in #5 above, includes a 10% capacity factor limit for the bank of 12 mandated by air operating permit A006-148761 (NOx RACT).

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 6 Segment #: 3 .

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Gas turbine bank (13-24) burning methane.
2. Source Classification Code (SCC): 2-01-002-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 8.023
5. Maximum Annual Rate: 7028.02
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.000031
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): The GTs may use 150-lb methane bottles to assist liquid fuel startups. Information provided is for natural gas, since it is mostly methane.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 6

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	NS
NOx	NA	NA	EL
CO	NA	NA	NS
PM	NA	NA	NS
PM10	NA	NA	NS
SAM	NA	NA	NS
VOC	NA	NA	EL
HAPS	NA	NA	NS

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: 28.64 lbs/hr	12.54 tons/yr
4. Synthetically Limited? (Yes/No): Y	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor: 0.0034	Units lb/mmBtu
Reference: Permit AO 06-230614	
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0	
<input type="checkbox"/> 1	<input type="checkbox"/> 2
<input type="checkbox"/> 3	<input type="checkbox"/> 4
<input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): 0.0034 lb/mmBtu x 8424 mmBtu/hour = 28.6416 lb/hour for one bank of twelve gas turbines 28.6416 lb/hour x 876hours/year = 25090 lb/year Emissions calculated at 40 degrees Fahrenheit for a maximum of 876 hours of operation while firing natural gas fuel.	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): The NOx RACT permit limits the heat input to an equivalent of 876 hours per year of operation. Note that any individual GT may operate up to 8760 hours per year.	

**Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 5
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.0013 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 10.53 lbs/hr 4.8 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years on any of the gas turbines while firing distillate oil.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 125 Emission limits for VOC come from the air construction permit AC 06-179848. Emissions given above are for fuel oil operation.

**Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 5
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.0034 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 28.64 lbs/hr 12.54 tons/yr
5. Method of Compliance: EPA Method 25A stack test once every five (5) years while firing natural gas fuel.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 127 Emission limits for VOC come from the air construction permit AC 06-179848. Emissions given above are for natural gas operation

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 2

Pollutant Detail Information

1. Pollutant Emitted:	NOx
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	7572 lbs/hr 3316.5 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :	to tons/yr
6. Emission Factor:	0.9 Units lb/mmBtu Reference: Rule 62-296.570(4)(b)5. and NOx RACT Permit AO06-148760
7. Emissions Method Code: (0,1, 2, 3, 4, 5):	0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	$(0.9 \text{ lb/mmBtu}) * (702 \text{ mmBtu}) = 631.8 \text{ lb/hr}$ $(631 \text{ lb/hr/GT}) * (12 \text{ GTs}) = 7,572 \text{ lb/hr}$ $(7,572 \text{ lb/hr}) * (876 \text{ hr/yr}) / (2000 \text{ lb/ton}) = 3,316.5 \text{ TPY}$ Emissions calculated at 40 deg. F. for a max. of 876 hrs of operation.
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	The NOx RACT permit limits heat input to this EU to an equivalent of 876 hrs / yr of operation. However, any individual GT can operate up to 8760 hr / yr.

**Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 2
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: NOx RACT
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.9 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 631 lbs/hr 2763.78 tons/yr
5. Method of Compliance: Stack test once every five (5) years, using EPA Method 7E
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 124 Emission limits (per GT) are from rule 62-296.570(4)(b)5.,F.A.C.; oil firing; one GT test / 5 yrs per Rule 62-297.340(1)(h).

**Information for Facility_ID: 1 Emission Unit #: 6 Pollutant #: 2
Basis For Allowable Emission #: 2**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: NOx RACT
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.5 Units : lbs/mmBtu
4. Equivalent Allowable Emissions: 351 lbs/hr 1537.38 tons/yr
5. Method of Compliance: Stack test once every five (5) years, using EPA Method 7E
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 132 Emission limits (per GT) are from rule 62-296.570(4)(b)5.,F.A.C.; natural gas firing; one GT test / 5 yrs per Rule 62-297.340(1)(h).

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 6
Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE20			
2. Basis for Allowable Opacity Code(R/O):		Rule	<input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity:			
Normal Conditions: 20		% Exceptional Conditions: 100 %	
Maximum Period of Excess Opacity Allowed: 60 min/hr			
4. Method of Compliance Code: EPA Method 9 Visible Emissions Evaluation. A visible emissions test shall be conducted on any gas turbine that operates for more than 400 hours in a federal fiscal year, pursuant to rule 62-297.340(1)(d) F.A.C.. At least one turbine shall be tested per year. Pursuant to rule 62-297.340(1)(h), F.A.C., at least one visible emissions compliance test shall be conducted on all twenty-four combustion turbines every five years, coinciding with the term of the operation permit for these turbines. The visible emissions compliance test shall be conducted using EPA Method 9 in accordance with 40 CFR 60, Appendix A. At least one quarter of the compliance tests shall be conducted while burning fuel oil and at least one quarter of the compliance tests shall be conducted while burning natural gas. Each visible emissions compliance test shall be conducted while the combustion turbine is operating at 90 - 100 percent of its capacity.			
5. Visible Emissions Comment (limit to 200 characters):			
Language in Method of Compliance Code, is from the recently-revised AC permit for these gas turbines (AC 06-179848). Excess emissions are allowed per Rule 62-210.700(1)			

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 6
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer: Model Number:		
Serial Number:		
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): This emission unit is not required to install continuous monitors because it is exempted per 40 CFR 72.6(b)(1).		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 6

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM	U		
SO2	U		
NO2	U		
4. Baseline Emissions:			
PM	1162.51 lbs/hr	509.18	tons/yr
SO2	4387.5 lbs/hr	1921.73	tons/yr
NO2	3316.5 tons/yr		

5. PSD Comment (limit to 200 characters):

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 6

Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU5_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU5_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : NA Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PFLU5_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU5_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU5_10.txt
Attached Document ID / Not Applicable

11. Alternative Modes of Operation (Emissions Trading) : Not Applicable
Attached Document ID / Not Applicable

12. Identification of Additional Applicable Requirements : PFLU5_13.txt
Attached Document ID / Not Applicable

13. Enhanced Monitoring Plan : Not Applicable
Attached Document ID / Not Applicable

14. Acid Rain Permit Application

Acid Rain Application - Phase II (Form No. 17-210.900(1)(a))
Attached Document ID: Not Applicable

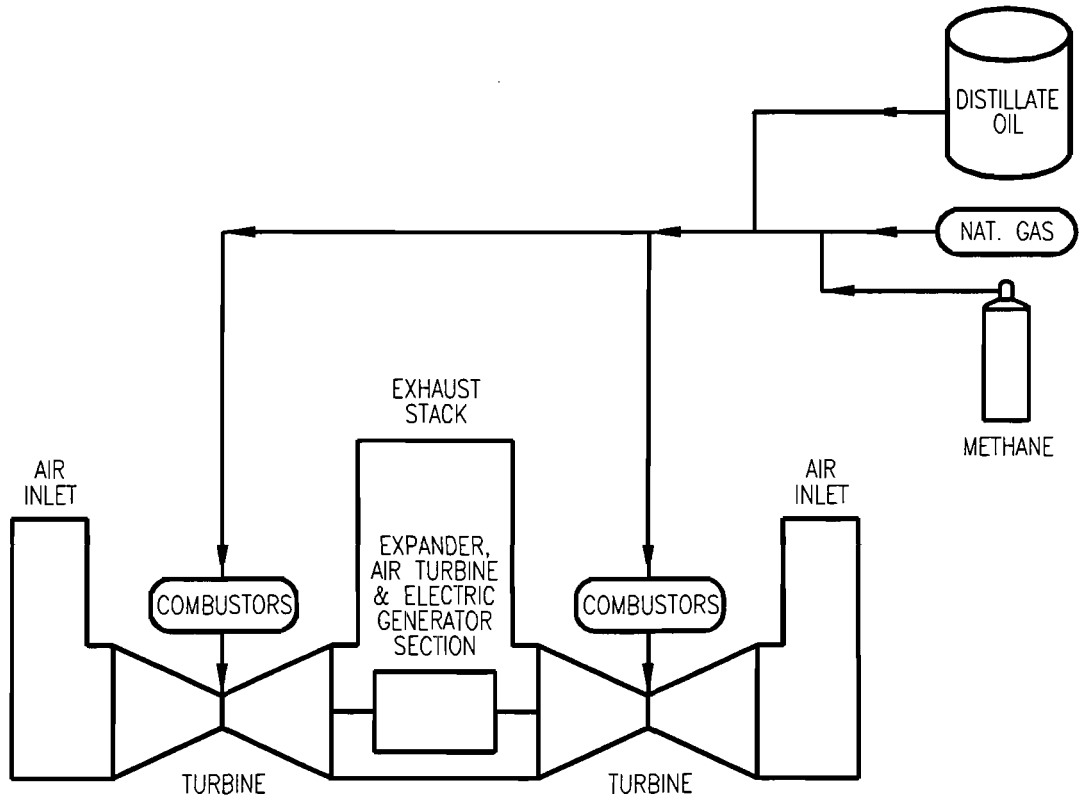
Repowering Extension Plan (Form No. 17-210.900(1)(b))
Attached Document ID: Not Applicable

New Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Retired Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Not Applicable


TECHNICAL ACCEPTANCE	ORG	BY	DATE
	ENGINEERING ORGANIZATION		
WALKDOWN INFORMATION	ORG	BY	DATE
	AS-BUILT INFORMATION		



TYPICAL GAS TURBINE ARRANGEMENT

NOTE:
THIS EMISSION UNIT SECTION
CONTEMPLATES THE ENTIRE BANK
OF TWELVE GAS TURBINES.

BAR CODE

	SYSTEM	DISCIPLINE	PLANT/UNIT
	SCALE	CAD FILE NAME	TITLE
	DRAWING SIZE	FPL ARCHIVE NAME	
	N/A	M	LAUDERDALE PLANT
	A (8.5X11)	FL005467	EMISSION UNIT FLOW DIAGRAM UNITS EU5-GT13 THRU GT24 ATTACHMENT NO. EU6
		FL005467	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	SHEET	REV
PFL4-M0107-YY	1 OF 1	0



III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 7

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Above-ground fuel oil storage tank #2.
2. Emissions Unit Identification Number: 027 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 4911
6. Emissions Unit Comment (limit to 500 characters): This emission unit normally supplies distillate fuel to the Site 1 (units 1 through 12) simple-cycle gas turbines (Emission Unit #5 in this document). Tanks 2,3 and 5 have interconnected piping, and fuel may be transferred from any tank to any other tank on an as-needed basis.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): Submerged Filling
2. Control Device or Method Code: Submerged Filling

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. EMISSIONS UNIT DETAIL INFORMATION (Regulated Emissions Units)

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 01/01/57	
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):	
3. Package Unit: Manufacturer: NA	Model Number: N/A
4. Generator Nameplate Rating: MW	
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 192642943 Units:gallons
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate given in #3 above is the currently permitted limit, in gallons per year, taken from Air Operating permit #AO 06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

Section / Form

Description

Emission Unit 7 Regulation - F.A.C. 62-210.300(2)	
Emission Unit 7 Regulation - F.A.C. 62-296.320(1)(a)	(state only)
Emission Unit 7 Regulation - F.A.C. 62-296.320(2)	

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 7

1. Identification of Point on Plot Plan or Flow Diagram: EU7 FO Tank #2	
2. Emission Point Type Code (1,2,3,4) : 1	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): NA	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature: 77	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	40 ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.432 North: 2882.622	
14. Emission Point Comment (limit to 200 characters): Nonstack emission point description: 80,000 Bbl fuel oil storage tank vents. There are several vents on this tank.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 7 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #2 - Working and breathing loss
2. Source Classification Code (SCC): 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 192642943
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): .Breathing loss = 1410 lbs VOC / yr (per EPA Tanks2 program) Working loss = 2261 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 1.84 TPY, using estimated activity factor given above.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 7

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 7 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: lbs/hr	2.33 tons/yr
4. Synthetically Limited? (Yes/No): N	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor:	Units
Reference:	EPA Tanks2 Program
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): Copy of Tanks2 printout for this emission unit is available upon request.	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): VOC emissions are restricted in permit NO. A0-06-230614, specific condition #1.	

**Information for Facility_ID: 1 Emission Unit #: 7 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 2.33 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 2.33 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR, and tracking of annual thruput.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 146 VOC emissions are restricted in permit NO. AC-06-179848. This condition also restricts annual thruput on this tank to 54,260,842 gallons per year.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 7
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information:		
Manufacturer:		Serial Number:
Model Number:		
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitoring equipment is not required to be installed, operated or maintained for this emission unit.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 7

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM
SO2
NO2

4. Baseline Emissions:

PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 7

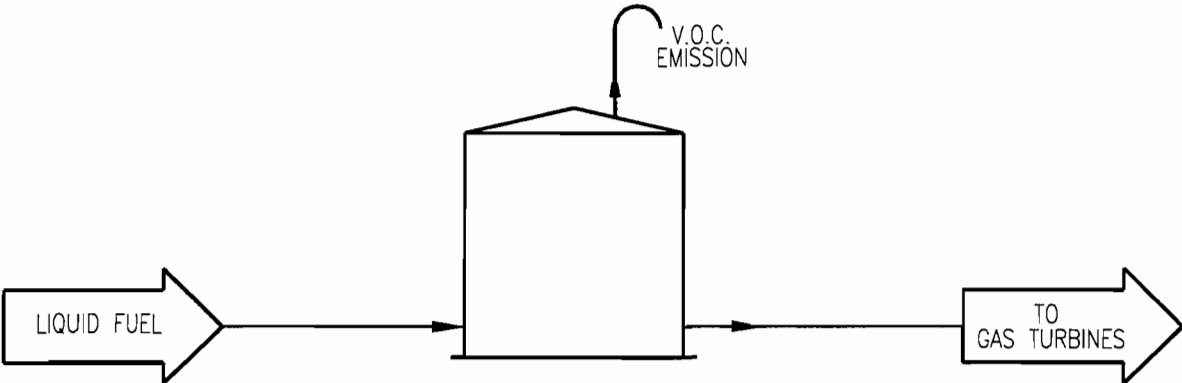
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU7_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only


10. Alternative Methods of Operation : PFLU7_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU7_13.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE				
AS-BUILT INFORMATION	ORC	BY	DATE	ENGINEERING ORGANIZATION	ORC	BY	DATE



80,000 BBL.
FUEL OIL STORAGE TANK #2

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005468	TITLE EMISSION UNIT FLOW DIAGRAM ABOVE GROUND TANKS ATTACHMENT NO. EU7
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005468	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER PFL4-M0108-YY	SHEET 1 OF 1	REV 0
---------------------------------	-----------------	----------

Attachment PFLU7_10.txt

Alternative Methods of Operation

This tank typically contains distillate oil, and the volume stored will vary from day-to-day. At times, the facility may also place Jet A fuel into this tank, or a mixture of distillate oil and Jet A fuel; again, the volume stored will vary from day-to-day.

Air Construction permit AC 06-179848 limits the annual thruput for this tank to 192,642,843 gallons per year.

Delete

Attachment PFLU7_13.txt

Identification of Additional Applicable Requirements

(The following specific conditions were taken from the Air Operating Permits AO 06-230614, AO 06-253684, and the Air Construction Permit AC 06-179848). *Note that the combined-cycle combustion turbines are not covered by the referenced permits or the following permit conditions.*

1. The maximum volatile organic compounds (VOC) emissions and volume of organic liquids handled by the tanks shall not exceed the following:

Vessel	Organic Liquid	Annual Throughput (Gallons)	Emissions (TPY VOC)
No. 2 Storage Tank	Jet A fuel/No.2 Dist. fuel oil	54,260,842	2.33
No. 3 Storage Tank	Jet A fuel	106,079,730	4.46
No. 4 Storage Tank	None	0	0
No. 5 Storage Tank	Jet A fuel/No. 2 fuel oil	54,260,842	2.29
Gas Turbine Dump Tanks	No. 2 fuel oil	300,000	0.003
Fuel Oil Metering Tanks	None	0	0
Gasoline Storage Tank	Gasoline	10,000	0.106
Diesel Fuel Storage Tank	Diesel Fuel	5,000	0.001

* If Tank No. 2 is used to supply Jet A fuel to the combustion turbines, the total Jet A fuel handled by both Tanks NOs. 2 and 3 shall not exceed 106,079,730 gallons per year and the sum of the VOC emissions from both Tanks NOs. 2 and 3 shall not exceed 6.79 tons per year.

FPL maintains records documenting the throughput and VOC emissions from the listed tanks.

2. The permittee shall keep records of the following for at least three years:

- a) The amount of light distillate fuel oil obtained for the plant.
- b) The amount of NO. 2 fuel oil obtained for the plant
- c) The throughput for fuel storage tank No. 3, fuel storage tank No. 5, gas turbine dump tanks, gasoline storage tanks, and diesel fuel storage tank.

FPL maintains records as required.

3. Pursuant to Rule 62-297.340(1)(d), F.A.C., a visible emissions compliance test shall be conducted on each combustion turbine that operates for more than 400 hours in a federal fiscal year. At least one turbine shall be tested per year. Pursuant to Rule 62-297.340(1)(h), F.A.C., at least one visible emissions compliance test shall be conducted on all twenty-four combustion turbines every five years, coinciding with the term of the operation permit for these turbines.

✓ The visible emissions compliance test shall be conducted using EPA Method 9 in accordance with 40 CFR 60 Appendix A. At least one quarter of the tests shall be conducted while burning fuel oil and at least one quarter shall be conducted while burning natural gas. Each visible emissions compliance test shall be conducted while the combustion turbine is operating at 90 - 100 percent of its capacity.

This is a recent modification to the air construction and air operating permits (July 30, 1995). FPL has tested the GT's in accordance with the old (pre-modification) permit conditions, and has begun the visible emission testing as specified by the current condition.

✓ 4. The VOC emission in TPY from all stationary tanks at this facility shall be calculated annually by the procedures described in AP-42, Emissions Factors, Section 4.3, Storage of Organic Liquids. Actual throughput and meteorological data shall be used for these calculations.

FPL has performed the required VOC emission calculations and has reported same in the Annual Operating Reports.

✓ 5. VOC emissions from each gas turbine shall not exceed 0.0013 lbs/mmBtu when the turbine is burning No. 2 fuel oil and 0.0034 lb/mmBtu when the turbine is burning natural gas. when both fuels (oil and gas) are burned together, the allowable VOC emissions shall be prorated.

FPL has performed stack testing on representative gas turbines to demonstrate compliance with the emission limits given.

✓ 6. Total VOC emissions from the 24 gas turbines when operating at the permitted capacity shall not exceed 57.28 lb/hour when the units are burning natural gas and 21.06 lb/hour when the units are burning oil. when both fuels are burned in the turbines at the same time, the allowable emissions shall be prorated.

FPL has performed stack testing on representative gas turbines to demonstrate compliance with the emission limits given.

✓ 7. Visible emissions shall not exceed 20% opacity.

FPL has Visible Emission Evaluation (VEE) records documenting the opacity of the gas turbines.

✓ 8. The permittee shall keep records of the type and quantity of fuel, GPH of oil and mmcf/hour of natural gas, used by each bank of turbines (GT's 1-12 and 13-24) for at least three (3) years. Usage may be determined on the basis of time of operation versus total fuel consumption for each block of 12 units.

FPL maintains records as required.

- ✓ 9. The VOC emission factors for the gas turbines shall be confirmed every five (5) years by EPA Method 25A tests as described in 40 CFR 60, Appendix A (July 1, 1988) on any of the gas turbines while burning 100% natural gas and while burning 100% No. 2 fuel oil.

FPL has performed the required emission factor confirmation testing, and submitted reports to the Department and Broward County.

- ✓ 10. The use of solvents for maintenance of the existing facility shall be tracked and controlled during the calendar year. the VOC emissions from solvents shall be calculated by the following method: The solvent volume loss shall be equal to the total solvent volume purchased/in stock minus the solvent volume reclaimed/disposed of offsite. The solvent volume loss shall then be multiplied by the emission factor (mass VOC/unit of solvent) to get a TPY value. the total solvent TPY emission value will be added to all other VOC sources to ensure compliance with Specific Condition 12.

FPL has maintained solvent usage records and calculations with respect to calculating VOC emissions from solvents. Such information has been included in the Annual Operating Reports.

11. The permittee shall keep records of the type and quantity of solvents, in TPY used during maintenance throughout this plant for a minimum of three (3) years.

FPL maintains the required records.

- ✓ 12. The total VOC emissions from all sources at this facility shall not exceed 99.92 TPY.

FPL has calculated VOC emissions from the emission units that are referenced by the permit condition. Note that the combined-cycle combustion turbine VOC emissions are not included in the 99.92 TPY VOC limit.

13. The VOC emissions shall be determined annually by adding the VOC emissions from each source at this facility for each calendar year and included in the annual operating report.

FPL has performed the required calculations, and has submitted the information in previous Annual Operating Reports.

14. The Department shall be notified of expected test dates at least fifteen (15) days prior to compliance stack testing.

FPL has performed the required notifications in the allotted time frame.

15. On or before March 1 of each calendar year, a completed DEP Form 62-210.900(4), Annual Operations Report Form for Air Emissions sources, shall be submitted to the Department. This shall include the annual VOC emissions for all air pollution sources at this facility.

FPL has prepared and submitted the Annual Operating Reports as required for the Lauderdale facility, including the required VOC emissions information.

16. Copies of all reports, test, notifications or other submittals required by this permit shall be submitted to both the Department of Environmental Protection, Southeast District Office and the Broward County Department of Natural Resource Protection.

FPL has submitted copies of all reports, notifications, etc.. as required by the permit condition.

17. In addition to the requirements of General Condition No. 8 of this permit, a written quarterly report shall be submitted to the Department of all opacity exceedances of emission limitations specified in Florida Administrative Code Rule 62-210.700 and 62-296.310. The report shall state the cause, period of noncompliance, and steps taken for corrective action and/or prevention of recurrence. If the opacity level cannot be determined for any reason, the report shall state the cause, duration, and action taken. All recorded data shall be maintained on file by Florida Power & Light for not less than three (3) years and made available to the Department upon request.

FPL has prepared and submitted the subject quarterly excess emissions reports in compliance with this permit condition.

(The following specific conditions were taken from the Air Operating Permits AO 06-148760 and AO 06-148761), which are the "NOx RACT" permits.

1. The total fuel firing rate for all twelve gas turbines shall not exceed 8,424 mmBtu/hour during fuel oil firing or natural gas firing. Annual heat input for all twelve gas turbines shall not exceed 7379×10^9 Btu.

For clarity, FPL suggests that the phrase "all twelve gas turbines" be replaced with the phrase "each bank of twelve gas turbines (units 1 - 12, and 13 - 24)".

2. NOx emissions from each gas turbine shall not exceed the following limits:

	<u>Natural Gas</u>	<u>Fuel Oil</u>
lbs/mmBtu	0.50	0.90
lbs/hour	351	631

These limits shall be effective January 1, 1995, and shall apply at all times except during periods of startup, shutdown, or malfunction as provided by F.A.C. Rule 62-210.700.

3. Before May 31, 1995, NOx emission compliance for each fuel shall be demonstrated by stack tests on one representative turbine unit using EPA Method 20 from 40 CFR 60 Appendix A and conducted at no less than 90% of the maximum hourly operating load. The Department's Southeast District Office and the Broward County Department of Natural Resource Protection shall be notified at least 15 days prior to each test. Results of the performance tests shall be reported to the Department within 45 days of test completion. Testing frequency for future tests will be determined upon review of the performance test results.

*FPL has performed the required testing and submitted the required reports to the Department and to Broward County. **FPL requests that this specific condition be deleted from the permit.***



III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 8

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Above-ground fuel oil storage tank #3
2. Emissions Unit Identification Number: 028 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This emission unit supplies backup light distillate fuel to the combined-cycle combustion turbines (Emission Units 1,2,3 and 4 in this document). Tanks 2,3 and 5 have interconnected piping, and fuel may be transferred from any tank to any other tank on an as-needed basis. This tank is typically filled via a pipeline from Port Everglades.

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters): Submerged Filling
2. Control Device or Method Code: Submerged Filling

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 01/01/57
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: _____ Model Number: _____
4. Generator Nameplate Rating: MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 106079730 Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate given in #3 above is the currently permitted limit, in terms of gallons per year, given in Air Operation permit #AO 06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 8760 hours/yr
--

Section / Form

Description

Emission Unit 8 Regulation - F.A.C. 62-210.300(2)

Emission Unit 8 Regulation - F.A.C. 62-296.310(2)

✓ Emission Unit 8 Regulation - F.A.C. 62-296.320(1)(a) (state only)

VOC

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :8

1. Identification of Point on Plot Plan or Flow Diagram: EU8, FO tank #3	
2. Emission Point Type Code (1,2,3,4) : 1	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters):	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	77 ft
8. Exit Temperature:	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	48 ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.434 North: 2883.552	
14. Emission Point Comment (limit to 200 characters): Nonstack Emission point description: 150,000 Bbl fuel oil storage tank vent. There are several vents on this tank.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 8 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #3 - Working and breathing loss
2. Source Classification Code (SCC): 4-03-010-18
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 106080
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Breathing loss = 3508 lbs VOC (per EPA Tanks2 program) Working loss = 5431 lbs VOC (per EPA Tanks2 program) Total losses = 4.46 TPY, based on the estimated annual activity factor given above.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 8

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 8 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: lbs/hr	4.46 tons/yr
4. Synthetically Limited? (Yes/No): N	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3): to tons/yr	
6. Emission Factor:	Units
Reference:	EPA Tanks2
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): Copy of Tanks2 printout is available upon request	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): VOC emissions are restricted in permit NO. A0-06-230614, specific condition #1.	

**Information for Facility_ID: 1 Emission Unit #: 8 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.46 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 4.46 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR and tracking of annual thruput.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 148 VOC emissions are restricted in permit NO. AC-06-179848. This condition also limits the annual thruput on this tank to 106,079,730 gallons per year.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 8
Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: Visible Emissions General Standard

2. Basis for Allowable Opacity Code(R/O): RULE Rule Other

3. Allowable Opacity:
Normal Conditions: 20 % Exceptional Conditions: %
Maximum Period of Excess Opacity Allowed: min/hr

4. Method of Compliance Code: None proposed

5. Visible Emissions Comment (limit to 200 characters):
This fuel oil storage tank is subject to the general visible emissions standard in 62-296.310(2), but the likelihood of an exceedance of the standard is remote.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 8
Continuous Monitor #:

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for this emission unit.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 8

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):			
PM			
SO2			
NO2			
4. Baseline Emissions:			
PM	lbs/hr		tons/yr
SO2	lbs/hr		tons/yr
NO2	tons/yr		

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 8

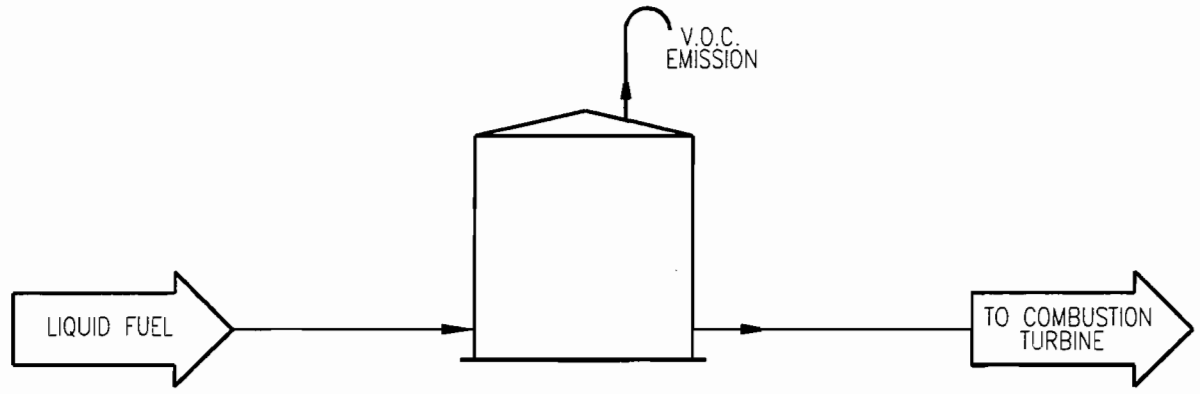
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU8_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only


10. Alternative Methods of Operation : PFLU8_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU5_10.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE				
AS-BUILT INFORMATION	ORC	BY	DATE	ENGINEERING ORGANIZATION	ORC	BY	DATE



150,000 BBL.
FUEL OIL STORAGE TANK #3

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005469	TITLE EMISSION UNIT FLOW DIAGRAM ABOVE GROUND TANKS ATTACHMENT NO. EU8
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005469	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PFL4-M0109-YY	SHEET	1 OF 1	REV	0
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Attachment PFLU8_7.txt

Operation and Maintenance Plan

The fuel oil tank stores unleaded gasoline for various plant vehicles. Best Operating and maintenance practices to minimize emissions from this tank includes:

- Weekly alarm testing
- Product thruput monitoring

Attachment PFLU8_10.txt

Alternative Methods of Operation

This tank typically contains light distillate fuel, and the volume stored will vary from day-to-day. A lubricity enhancer and fuel stabilizer may be added to the fuel on occasion to facilitate the burning of the fuel in the combustion turbines and to prevent breakdown of the fuel.

Air Construction permit AC 06-179848 limits the annual thruput of fuel through this tank to 106,079,730 gallons per year.

FUEL OIL TANK 5



III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 9

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Above-ground fuel oil storage tank #5
2. Emissions Unit Identification Number: 029 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This emission unit supplies #2 diesel fuel to the Site 2 (units 12 through 24) simple-cycle gas turbines (Emission Unit #6 in this document). Tanks 2,3 and 5 have interconnected piping, and fuel may be transferred from any tank to any other tank on an as-needed basis.

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters): Submerged Filling
2. Control Device or Method Code: Submerged Filling

B. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 01/01/72
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: _____ Model Number: _____
4. Generator Nameplate Rating: MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 54260842 Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate given in #3 above, is the currently permitted limit, in gallons per year, taken from Air Operating permit #AO 06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 8760 hours/yr
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Section / Form

Description

Emission Unit 9 Regulation - F.A.C. 62-210.300(2)

Emission Unit 9 Regulation - F.A.C. 62-296.310(2)

Emission Unit 9 Regulation - F.A.C. 62-296.320(1)(a) (state only)

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :9

1. Identification of Point on Plot Plan or Flow Diagram: EU9-FO tank #5	
2. Emission Point Type Code (1,2,3,4) : 1	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters):	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature: 77	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	38 ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.357 North: 2884.134	
14. Emission Point Comment (limit to 200 characters): Nonstack emission point description: 75,000 Bbl fuel oil storage tank vents. There are several vents on this tank.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 9 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #5 - Working and breathing loss
2. Source Classification Code (SCC): 4-03-011-55
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 54261
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Breathing loss = 1343 lbsVOC (per EPA Tanks2 program) Working loss = 2261 lbs VOC (per EPA Tanks2 program) Total losses = 1.80 TPY, based on the annual activity factor given above.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 9

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 9 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: lbs/hr	2.29 tons/yr
4. Synthetically Limited? (Yes/No):	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor:	Units
Reference:	EPA Tanks2
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): Copy of Tanks2 printout is available upon request	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): VOC emissions are restricted in permit NO. A0-06-230614, specific condition #1.	

**Information for Facility_ID: 1 Emission Unit #: 9 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 2.29 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 2.29 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR and tracking of annual thruput.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 147 VOC emissions are restricted in permit NO. AC-06-179848. This condition also limits the annual thruput to this tank to 54,260,842 gallons per year.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 9

Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: Visible Emissions General Standard
2. Basis for Allowable Opacity Code(R/O): RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: None proposed
5. Visible Emissions Comment (limit to 200 characters): This fuel oil storage tank is subject to the general visible emissions standard in 62-296.310(2), but the likelihood of an exceedance of the standard is remote.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 9
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for this emission unit.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 9

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM
SO2
NO2

4. Baseline Emissions:

PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit # : 9

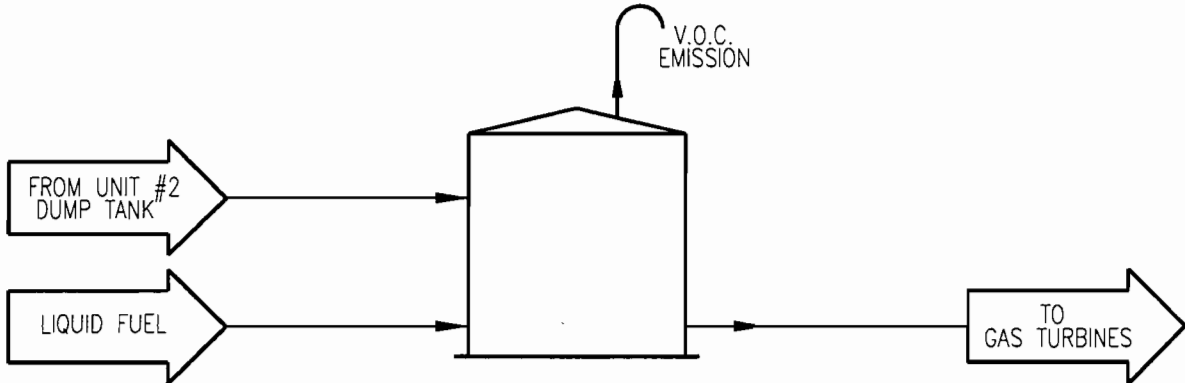
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU9_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFLU9_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : FPLU5_12.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE		
AS-BUILT INFORMATION	ORG	BY	ENGINEERING ORGANIZATION	ORG	BY



75,000 BBL.
FUEL OIL STORAGE TANK #5

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005470	TITLE EMISSION UNIT FLOW DIAGRAM ABOVE GROUND TANKS ATTACHMENT NO. EU9
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005470	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER PFL4-M0110-YY	SHEET 1 OF 1	REV 0
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Attachment PFLU9_10.txt

Alternative Methods of Operation

This tank typically contains diesel fuel, and the volume stored will vary from day-to-day. At times, the facility may also place Jet A fuel into this tank, or a mixture of diesel fuel and Jet A fuel; again, the volume stored will vary from day-to-day.

Air Construction permit AC 06-179848 limits the annual thruput for this tank to 54,260,842 gallons per year.

UG UNLEADED TANK



III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 10

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Underground unleaded fuel tank
2. Emissions Unit Identification Number: 032 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This tank is used to supply vehicular fuel to plant equipment.

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters): Underground Tank
2. Control Device or Method Code: Underground Tank

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 01/01/91
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: NA Model Number: NA
4. Generator Nameplate Rating: MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 10000 Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate is the currently permitted annual thruput limit in gallons, taken from Air Operating permit #AO 06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 8760 hours/yr
--

Section / Form

Description

Emission Unit 10 Regulation - F.A.C. 62-210.300(2)

Emission Unit 10 Regulation - F.A.C. 62-296.320(1)(a)

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :10

1. Identification of Point on Plot Plan or Flow Diagram: UST - unleaded	
2. Emission Point Type Code (1,2,3,4) : 1	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters):	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature: 77	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	0 ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.357 North: 2883.668	
14. Emission Point Comment (limit to 200 characters): Nonstack emission point description: 4,000 gallon underground gasoline storage tank.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 10 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): EU10, Underground unleaded gasoline tanks - working and breathing losses
2. Source Classification Code (SCC):
3. SCC Units: Thousand gallon transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate: 10
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Max. Annual Rate = annual thruput limit in 1,000 gpy, per Air Op. Permit AO 06-230614. Working loss = 136.84 lbs VOC (per EPA Tanks2 Prog.) Breathing loss = 0 lbs VOC (Supplied by EPA Tanks2 Prog.)

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 10

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 10 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted: Volatile Organic Compounds	
2. Total Percent Efficiency of Control:	%
3. Potential Emissions: lbs/hr	0.106 tons/yr
4. Synthetically Limited? (Yes/No): N	
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr	
6. Emission Factor:	Units
Reference:	EPA Tanks2
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 0 <input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5	
8. Calculation of Emissions (limit to 600 characters): Copy of Tanks2 printout available upon request	
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): VOC emissions are restricted in permit NO. A0-06-230614, specific condition #1.	

**Information for Facility_ID: 1 Emission Unit #: 10 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.106 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 0.106 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 56 VOC emissions are restricted in permit No. AC-06-179848.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 10
Continuous Monitor #: 1

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information:		
Manufacturer:		
Model Number:	Serial Number:	
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for this emission unit.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 10

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown): PM SO2 NO2		
4. Baseline Emissions:		
PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 10

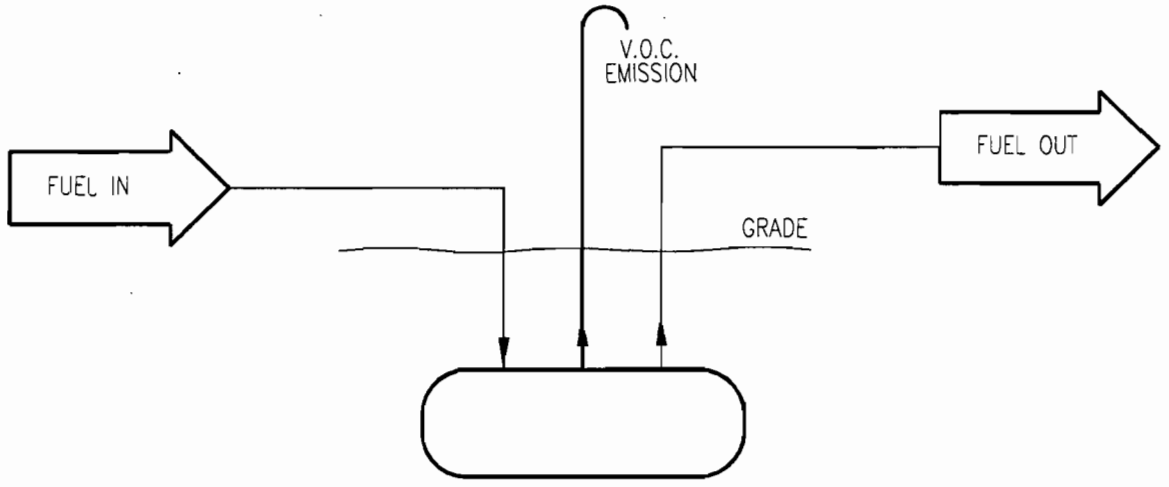
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU10_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only


10. Alternative Methods of Operation : PFL10_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU5_12.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE		
AS-BUILT INFORMATION	ORG	BY	ENGINEERING ORGANIZATION	ORG	BY
					DATE



4000 GAL.
UNLEADED GASOLINE TANK

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FLO05471	TITLE EMISSION UNIT FLOW DIAGRAM UNDERGROUND TANKS ATTACHMENT NO. EU10
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FLO05471	

0	7-1-94	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER PFL4-M0111-YY	SHEET 1 OF 1	REV 0
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Attachment PFLU10_10.txt

Alternative Methods of Operation

This tank contains unleaded gasoline fuel which is used for on-site FPL vehicles. The volume stored will vary from day-to-day.

Air Construction permit AC 06-179848 limits the annual thruput for this tank to 10,000 gallons per year.

UG DIESEL TANK



III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 11

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Underground fuel tanks - diesel
2. Emissions Unit Identification Number: 033 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 049
6. Emissions Unit Comment (limit to 500 characters):

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters): Underground Tank
2. Control Device or Method Code: Underground Tank

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY):
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: _____ Model Number: _____
4. Generator Nameplate Rating: MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 5000 Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate given above is the annual thrupt limit in gallons, given by Air Operating Permit AO 06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 8760 hours/yr
--

Section / Form

Description

Emission Unit 11 Regulation - F.A.C. 62-210.300(2)

Emission Unit 11 Regulation - F.A.C. 62-296.320(1)(a)

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :11

1. Identification of Point on Plot Plan or Flow Diagram: UST - diesel	
2. Emission Point Type Code (1,2,3,4) : 1	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters):	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature: 77	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	0 ft
13. Emission Point UTM Coordinates: Zone: 14 East: 580.357 North: 2883.668	
14. Emission Point Comment (limit to 200 characters): Nonstack emission point description: 1000 gallon underground diesel fuel storage tank.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 11 Segment #: 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Underground diesel tank - breathing and working losses
2. Source Classification Code (SCC): 4-04-004-13
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate: 0.009
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Breathing loss = 0 pounds of VOC (supplied by EPA Tanks2 program) Working loss = 60.77 pounds of VOC (supplied by EPA Tanks2 program)

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: / Emission Unit #: / /

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: / Emission Unit #: // Pollutant #: /

Pollutant Detail Information

1. Pollutant Emitted:	Volatile Organic Compounds
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	lbs/hr 0.001 tons/yr
4. Synthetically Limited? (Yes/No):	N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	to tons/yr
6. Emission Factor:	Units
Reference:	EPA Tanks2
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	Copy of Tanks2 printout is available upon request
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	VOC emissions are restricted in permit NO. A0-06-230614, specific condition #1.

**Information for Facility_ID: 1 Emission Unit #: 11 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.001 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 0.001 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 56 VOC emissions are restricted in permit NO. AC-06-179848.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : / Emission Unit #: / /
Continuous Monitor #:

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for fuel oil storage tanks.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 11

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM
SO2
NO2

4. Baseline Emissions:

PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit # : //

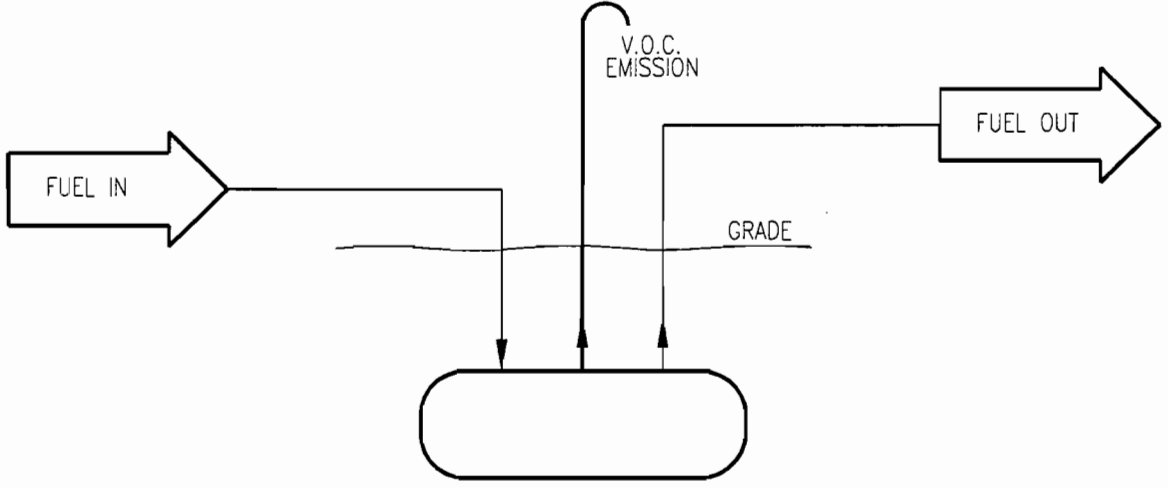
Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU11_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only


10. Alternative Methods of Operation : PFL11_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU5_12.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

WALKDOWN INFORMATION	AS-BUILT INFORMATION	ORC	BY	DATE
TECHNICAL ACCEPTANCE	ENGINEERING ORGANIZATION	ORC	BY	DATE



1000 GAL.
DIESEL FUEL TANK

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FLO05472	TITLE EMISSION UNIT FLOW DIAGRAM UNDERGROUND TANKS ATTACHMENT NO. EU11
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FLO05472	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PFL4-M0112-YY	SHEET	1 OF 1	REV	0
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Attachment PFLU11_10.txt

Alternative Methods of Operation

This tank contains diesel fuel which is used for on-site FPL vehicles and equipment. The volume stored will vary from day-to-day.

Air Construction permit AC 06-179848 limits the annual thruput for this tank to 5,000 gallons per year.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 12

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

-] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
-] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Two underground tanks, one 110 gallon and one 2500 gallon.
2. Emissions Unit Identification Number: 030 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): These tanks do not serve as storage for diesel fuel, but rather collect unburned fuel when a gas turbine is switch from firing diesel to natural gas, or when a unit trips (shuts down due to a malfunction).

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters): Underground Tank
2. Control Device or Method Code: Underground Tank

B. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 08/01/70	
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):	
3. Package Unit: Manufacturer:	Model Number:
4. Generator Nameplate Rating: MW	
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: 300000 Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): The Maximum Process or Throughput Rate given in #4 above is the annual throughput limit in gallons given in Air Operating Permit A0-06-230614.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

Section / Form

Description

Emission Unit 12 Regulation - F.A.C. 62-210.300(2)

Emission Unit 12 Regulation - F.A.C. 62-296.320(1)(a)

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 12

1. Identification of Point on Plot Plan or Flow Diagram: GT dump tank-Site 1	
2. Emission Point Type Code (1,2,3,4) : 3	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): The dump tanks share a common APIS number (50BRO06003730).	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:	
5. Discharge Type Code (D, F, H, P, R, V, W) : P	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature: 77	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	0 ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.289 North: 2883.596	
14. Emission Point Comment (limit to 200 characters): Nonstack emission point description: Tank at GT Site 1 - 2,500 gallon underground double-walled fiberglass tank.	

**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID Emission Unit # : 12

1. Identification of Point on Plot Plan or Flow Diagram: GT dump tank-Site2		
2. Emission Point Type Code (1,2,3,4) : 3		
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): The gas turbine dump tanks share a common APIS number (50BRO06003730).		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code (D, F, H, P, R, V, W) : P		
6. Stack Height:	ft	
7. Exit Diameter:	ft	
8. Exit Temperature: 77	°F	
9. Actual Volumetric Flow Rate:	acfm	
10. Percent Water Vapor:	%	
11. Maximum Dry Standard Flow Rate:	dscfm	
12. Nonstack Emission Point Height:	0	ft
13. Emission Point UTM Coordinates: Zone: 17 East: 580.333 North: 2884.098		

14. Emission Point Comment (limit to 200 characters):
Nonstack emission point description:

Tank at GT Site 2 - 110 gallon underground steel tank.

UTM coordinates provided are for GT site 1 dump tank.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 12 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Underground gas turbine dump tanks - working and breathing loss
2. Source Classification Code (SCC):
3. SCC Units: Thousand gallon transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 300000
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Working loss of the 2500 gallon tank with a 300,000 gallon thruput = 4.40 lbs VOC (per EPA Tanks2 Program). The breathing loss was negligible. No. 2 oil density = 6.833 lb/gal. The SCC is unknown.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 12

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	EL

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 14 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted:	Volatile Organic Compounds
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	lbs/hr 99.92 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	3 0 to 99.92tons/yr
6. Emission Factor:	Units
Reference:	tracking material
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0
	<input type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5
8. Calculation of Emissions (limit to 600 characters):	Plant records are available upon request.
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	Lauderdale facility has a current permit limit for loss of solvents for maintenance activities. VOC fugitives include estimates for maintenance parts cleaning, aerosol can usage and painting.

**Information for Facility_ID: 1 Emission Unit #: 12 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.003 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 0.003 tons/yr
5. Method of Compliance: Annual running of EPA Tanks2 program and reporting results in AOR.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): 57 VOC emissions are restricted in permit No. AC0-06-179848.

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : 1 Emission Unit #: 12
Continuous Monitor #:

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information:		
Manufacturer:		Serial Number:
Model Number:		
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for fuel oil storage tanks.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 12

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977: Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

<p>3. Increment Consuming/Expanding Code: (C, E, U- unkown):</p> <p>PM</p> <p>SO2</p> <p>NO2</p>															
<p>4. Baseline Emissions:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 15%;">PM</td> <td style="width: 45%;">lbs/hr</td> <td style="width: 20%;"></td> <td style="width: 20%;">tons/yr</td> </tr> <tr> <td>SO2</td> <td>lbs/hr</td> <td></td> <td>tons/yr</td> </tr> <tr> <td>NO2</td> <td>tons/yr</td> <td></td> <td></td> </tr> </table>				PM	lbs/hr		tons/yr	SO2	lbs/hr		tons/yr	NO2	tons/yr		
PM	lbs/hr		tons/yr												
SO2	lbs/hr		tons/yr												
NO2	tons/yr														

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

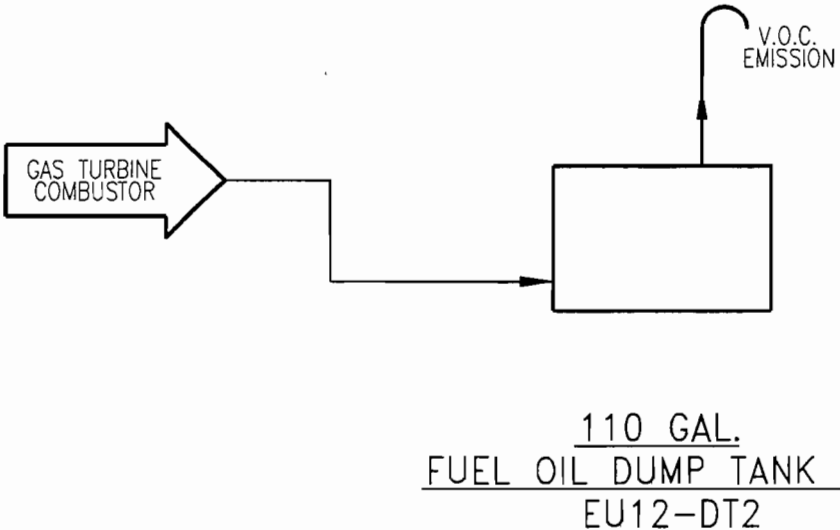
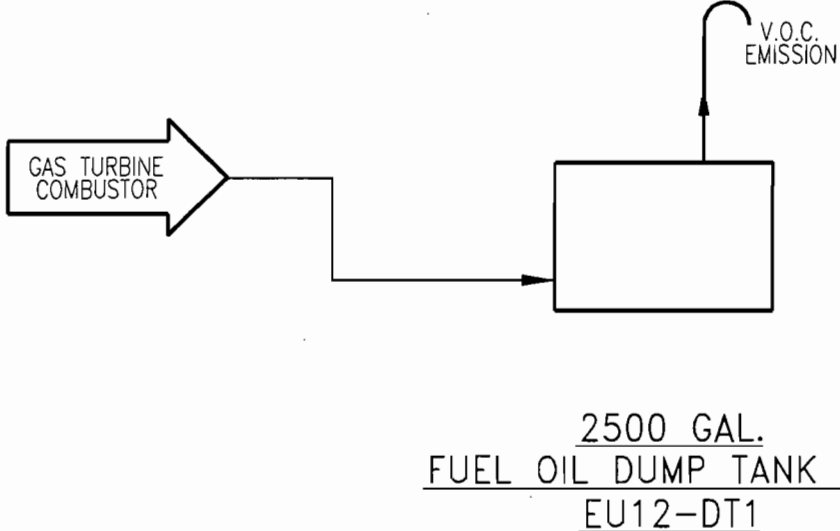
Information for Facility-ID : 1 Emission Unit # : 12

Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU12_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PFLU12_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable


Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFL12_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFLU5_12.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable



TECHNICAL ACCEPTANCE		
ORG	BY	DATE
WALKDOWN INFORMATION		
ORG	BY	DATE
AS-BUILT INFORMATION		

BAR CODE

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005473	TITLE EMISSION UNIT FLOW DIAGRAM UNDERGROUND TANKS ATTACHMENT NO. EU12
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005473	

0	7/18/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER PFL4-M0113-YY	SHEET 1 OF 1	REV 0
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Attachment PFLU12_10.txt

Alternative Methods of Operation

These tanks contain diesel fuel or a mixture of diesel fuel and light distillate oil which is collected from the fuel supply lines when any of the simple-cycle gas turbine switch from firing liquid fuel to natural gas, or shuts down while firing liquid fuel. The volume stored will vary from day-to-day. Periodically, the tanks are pumped out and the fuel may be pumped into one of the large fuel oil storage tanks at the facility (either tanks 2,3 or 5), or collected in a waste oil tank for disposal.

Air Construction permit AC 06-179848 limits the annual thruput for these tanks to 300,000 gallons per year.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 13

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 2

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Facility-wide unregulated emission units
2. Emissions Unit Identification Number: <i>Unk</i> (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : <i>A</i>
4. Acid Rain Unit? (Y/N): <i>N</i>
5. Emissions Unit Major Group SIC Code: <i>049</i>
6. Emissions Unit Comment (limit to 500 characters): This emission unit describes all unregulated emission units at the facility, including the trailer-mounted emergency diesel generator, which is used to provide backup power to the simple-cycle gas turbine banks in the event of a catastrophic loss of power. This emission unit has not been required to be permitted in the past, as it has operated < 400 hours per year, and was therefore exempted under 62-210.300(3)(u) F.A.C. Refer to Attachment PFL-FW for a list of all included emission units.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):
2. Control Device or Method Code:

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 13

F.A.C. 62-210.400(2) F.A.C. 62-210.700(1)	F.A.C. 62-210.700(4) F.A.C. 62-210.700(5)	F.A.C. 62-210.700(6) F.A.C. 62-213.400	F.A.C. 62-213.410 F.A.C. 62-213.460 F.A.C. 62-296.300(3)(a)20. F.A.C. 62-296.310(2)(a) F.A.C. 62-296.570(1)(b)
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # :13

1. Identification of Point on Plot Plan or Flow Diagram: Mobile EDG
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters):
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : H
6. Stack Height: 12.33 ft
7. Exit Diameter: 0.417 ft
8. Exit Temperature: 960 °F
9. Actual Volumetric Flow Rate: 3990 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: East: North:
14. Emission Point Comment (limit to 200 characters): This mobile diesel unit is normally located at Lauderdale site.

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 13 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel burned in the mobile emergency diesel generator
2. Source Classification Code (SCC): 2-01-001-02
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 0.034
5. Maximum Annual Rate: 1.365
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 1
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 13
Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE20				
2. Basis for Allowable Opacity Code(R/O):		RULE	<input type="checkbox"/> Rule	<input type="checkbox"/> Other
3. Allowable Opacity:				
Normal Conditions: 20		% Exceptional Conditions: 100		%
Maximum Period of Excess Opacity Allowed: 60				min/hr
4. Method of Compliance Code: None proposed				
5. Visible Emissions Comment (limit to 200 characters):				
This EU is subject to the general VE standard in 62-296.310(2), and also to the allowances for excess emissions in 62-210.700(1) F.A.C. for startup, shutdown, and malfunction for up to 2hrs/24hrs.				

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 13
Continuous Monitor #:

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for emergency diesel generators.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 13

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM
SO2
NO2

4. Baseline Emissions:

PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	3.41 tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit # : 13

Supplemental Requirements for All Applications

1. Process Flow Diagram : PFLU13_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PFLU13_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PFLU13_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : Not Applicable Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : Not Applicable Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED TRIVIAL & DE MINIMIS EMISSION UNITS

Following are several pages of unregulated trivial and de minimis emission units and activities at the facility. The trivial activities identified in this application are provided for information only and are identified as examples of, but not limited to, the trivial activities identified by the Division of Air Resources Management's (DARM) guidance. It is understood that such activities do not have to be included in with the Title V Application. The trivial activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in DARM's guidance.

Pursuant to Rule 62-210.300(3)(b)1., notice is herein provided that the emissions units listed below are not subject to a permit issued by the Department of Environmental Protection and are exempt from permitting until a final determination is made under the Title V permitting requirements (Rule 62-213 F.A.C.). These units would not have triggered review under Rules 62-212.400 or 62-212.500 or any new source performance standard listed in Rule 62-204.800 F.A.C..

ATTACHMENT PFL-FW
LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 AND 5 COMBINED CYCLE POWER BLOCK

Combustion Turbine and Accessories

1½" Ø H₂ Continuous Generator Vent to Atmosphere

1" Ø Lube Oil Vents to Atmosphere

Lube Oil Vapor Extractor Vents to Atmosphere

¾" Fuel Gas Vent Purge

Heat Recovery Steam Generators (HRSG)

High Pressure Steam Drum Silencers

Intermediate Pressure Steam Drum Silencers

Low Pressure Steam Drum Silencers

1" Ø N₂ Vents to Atmosphere

Sample Cooler Relief Valves

Main Steam and Reheat Steam

Main Steam and Reheat Silencers

1" Ø Main Steam and Reheat Vents to Atmosphere

Steam Turbine Systems

¾" Ø Vents to Atmosphere

8" Ø Relief Valve Vents to Atmosphere

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 AND 5 COMBINED CYCLE POWER BLOCK

Condensate

Feedwater Heater Relief Valve Vents to Atmosphere

1" Ø Feedwater Heater Vents

6" Ø Gland Seal Condensate Blower Discharge

Miscellaneous Vents to Atmosphere

¾" Ø X 1" Ø Relief Valve Vents to Atmosphere

Condensate Storage Tank Vent

HRSG Blowdown System

1" Ø Vents to Atmosphere

14" Ø Intermittent Blowdown Stack

1" Ø Continuous Blowdown Tank Vent

Condenser and Air Evacuation System

LP Turbine Diaphragm Seals

1" Ø Vents to Atmosphere

8" Ø Exhaust Cond. Vacuum Pump Separators

4" Ø Exhaust Water Trap Silencers Priming Vacuum Pumps

Combustion Turbine Wash System

Miscellaneous Vents to Atmosphere

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 AND 5 COMBINED CYCLE POWER BLOCK

Circulating and Open Cooling Water System

1" Ø Relief Valves

Miscellaneous Air Release Valves

1" Ø Vents to Atmosphere

Service and Well Water System

Storage Tank Vents to Atmosphere

1" Ø Vents to Atmosphere

Lube Oil Transfer System

Lube Oil Holding Tank Vent (10,000 Gal.)

1" Ø Vents to Atmosphere

Bulk Gas System

N₂ Supply Line Relief Valve Vent

CO₂ Storage Tank Fill Line Relief Valve Vents

CO₂ Supply Line Relief Valve Vents

Intermediate Pressure HRSG Feedwater and Steam System

1" Ø Deaerator Vents to Atmosphere

1" Ø I.P.S.H. Discharge Vents to Atmosphere

I.P.S.H. Discharge Silencers

8" Ø IP Steam System Silencers

1" Ø IP Steam System Vents to Atmosphere

1" Ø IP FW Vents to Atmosphere

Temporary Steam Blow System

6" to 18" Ø Vents to Atmosphere

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 AND 5 COMBINED CYCLE POWER BLOCK

Feedwater System

1" Ø Vents to Atmosphere

Strainer Vents

Steam Turbine Lube Oil System

Vapor Extractor Vents

Lube Oil Dump Tank Vent

C. T. Control Building

Battery Room Roof Vents

D. C. PNL. & U.P.S. Room Pwr. Roof Vents

Stairway Roof Vent

Restrooms Roof Vent

Kitchen Roof Vent

Conference & Break Room Exhaust Fan

C. T. Environmental Enclosure

Elevator Equipment and Restroom Roof Vent

Roof Vents and Exhaust Fans

Closed Cooling Water System

Miscellaneous Vents to Atmosphere

Miscellaneous Relief Valve Vents

CCW Head Tank Vent

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 AND 5 COMBINED CYCLE POWER BLOCK

Gas Regulator and Filter Yard

Miscellaneous Vents to Atmosphere

Gas Scrubber Relieve Valves

Gas Metering Area

Miscellaneous Vents to Atmosphere

Moisture collection tank

Fuel Gas System

Miscellaneous Vents to Atmosphere

Unpaved Areas

Limited Vehicular Traffic

Fuel Oil System

1" Ø F.O. Delivery Piping Vents

F.O. Additive Tank

5' Ø x 8 LG. 6"-Vent (1,000 Gal.)

2" Ø CT Combustor Drain Collection Header Vent

CT Shell Drain Anti-Splash Box Vent

C.E.M. Monitoring Equipment

Gas Bottles

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

UNITS 4 & 5 COMBINED CYCLE POWER BLOCK

Miscellaneous Activities

Plant Grounds Maintenance

Routine Maintenance/Repair Activities

Non-Halogenated Solvent Cleaning Operations

Internal Combustion Engines which Drive compressors, Generators, Water Pumps or Other Auxiliary Equipment

Transformers, Switches and Switchgear, Processing & Venting

Electrically Heated Equipment Used for Heat Treating, Tracing, Drying, Soaking, Case Hardening or Surface Conditioning

Air Compressors and Centrifuges Used for Compressing Air

Storage of Product in Sealed Containers

Miscellaneous Mobile Vehicle Operation

Cars, Light Trucks, Heavy Duty Trucks, Back Hoes, Tractors, Forklifts, Cranes, Etc.

Miscellaneous Mobile Equipment Operation

Compressors, Chain Saws, Small Generators, (< 100kw) Welding Machines, Electric Saws & Drills, Etc.

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

GENERAL SITE

Water Plant Analysis Room
Exhaust Hood w/12" Blower

Water Treatment
Miscellaneous Relief Valves

Mixed Bed Blower Relief Valve

Clearwell 12" Ø Vent

Forced Draft-Vacuum Degasifier Vents 12"

Vacuum Pump Discharger Vents

Neutralization Tank

Mist Eliminator Vent

Scale Inhibitor Tank/Vent

12' Ø x 20' LG. Acid Storage Tank with Mist Control Vent

12' Ø x 20' LG. Caustic Storage Tank Breather Vent

Hazardous Waste Building
14" Pwr. Roof Vent Oil Storage Room

14" Power Roof Vent Solvent & Chemical Storage Room with Closed Containers

14" Pwr. Roof Vent Waste Storage

Fire Pump House
2" Diesel Day Tank Vent (500 Gal.)

6" Diesel Engine Exhaust

28" X 28" Exhaust Fan

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

Machine Shop
24" Air Operated Fans

Recreation Pavilions
Smoker w/2 - 8" Vents

Charcoal Cooking Area Exhaust Fan 12"

Accessory Component Repair Building
12" Exhaust Fan

Fire Protection System
1" Ø Vents to Atmosphere

Storm Water Basins
Retention and Detention Ponds

GENERAL SITE

G. T. Component Repair Shop
Roof Exhaust Fan

Large Exhaust Hood Fans

Paint Room and Booth Exhaust Fans

Sandblasting Machine Exhausts to Cyclone and Filter Bags

G. T. Repair and Overhaul Shop
Roof Exhaust Fans

Restroom Roof Vent

Temporary Facilities
Restroom Trailer Roof Vents

Plant Service Building (Maintenance/Repair/Storage/Offices/Restrooms)
Roof Exhaust Fans

Exhaust Fume Hood

Waste Water Treatment
600,000 Gallon Oily Waste Water Surge Basin

900,000 Gallon Waste Water Equalization Basin

800,000 Gallon HRSG Cleaning Rinse Water Basin

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

PH Adjustment Tank/Mixers

Relief Valves

Air Receiver Tank Relief Valve

Waste Water Treatment Control Building
Roof Vents

Lab Hood Vent

Waste Water System
Restroom Toilet and Sink Vents

4"-Vents at Pump Lift Stations

1"- Ø Air Release Valves

Waste Water Treatment
Oil-Water Separator Vent

Air Type Oil-Water Separator Relief Valve

Decant Tank Vent

Waste Oil Holding Tank Compartment "A" & "B" Vent

12' Ø x 20' LG. Acid Storage Tank Dry with Mist Eliminator

12' Ø x 20' LG. Caustic Storage Tank 4" Vent

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED EMISSION UNITS

Miscellaneous Activities

Plant Grounds Maintenance

Routine Maintenance/Repair Activities

Non-Halogenated Solvent Cleaning Operations

Internal Combustion Engines which Drive compressors, Generators, Water Pumps or Other Auxiliary Equipment

Transformers, Switches and Switchgear, Processing & Venting

Electrically Heated Equipment Used for Heat Treating, Tracing, Drying, Soaking, Case Hardening or Surface Conditioning

Air Compressors and Centrifuges Used for Compressing Air

Storage of Product in Sealed Containers

Maintenance/Painting Activities

Emergency Diesel Generators

2 ea, 500 kW mobile diesel generator, 4.6 mmBtu/hr

Miscellaneous Mobile Vehicle Operation

Cars, Light Trucks, Heavy Duty Trucks, Back Hoes, Tractors, Forklifts, Cranes, Etc.

Miscellaneous Mobile Equipment Operation

Compressors, Chain Saws, Small Generators, (< 100kw) Welding Machines, Electric Saws & Drills, Etc.

Miscellaneous Other Activities

Home heating and comfort heating with a gross maximum heat output of less than one million Btu/hour

Internal combustion engines in boats, aircraft and vehicles used for transportation of passengers or freight

Vacuum pumps used in laboratory operations

Equipment used for steam cleaning

Belt or drum sanders having a total sanding surface of five square feet or less and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more

Miscellaneous Other Activities (continued)

Equipment used exclusively for space heating, other than boilers.

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED TRIVIAL & DE MINIMIS EMISSION UNITS

Miscellaneous Other Activities (continued)

Equipment used exclusively for space heating, other than boilers.

Laboratory equipment used exclusively for chemical or physical analyses/Various

Brazing, soldering or welding equipment

Laundry dryers, extractors, or tumblers for fabrics cleaned with only water solutions of bleach or detergents

Fire & Safety equipment

Surface coating facilities in ozone attainment areas (provided that < 6.0 gallons of coatings per day are applied).

Degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as a hazardous air pollutant.

Use of spray cans & solvents for routine maintenance activities

ATTACHMENT PFL-FW

LAUDERDALE PLANT - UNREGULATED TRIVIAL & DE MINIMIS EMISSION UNITS

GAS TURBINE SITES 1 AND 2

G.T. Site 1 & 2

1/2" Air Storage Tank Vent

1/2" Air Storage Tank Relief Valve

2" Engine L.O. Breather Vents

2" X 4" Gen. Cooling Air Discharger

6" Batt. Room Vent w/Blower

CO₂ Fire Suppression

Restroom Vents

1/2" Aux.. Engine Lube Oil Tank Breather Vents

24" Aux. Equipment Room Exhaust Fan

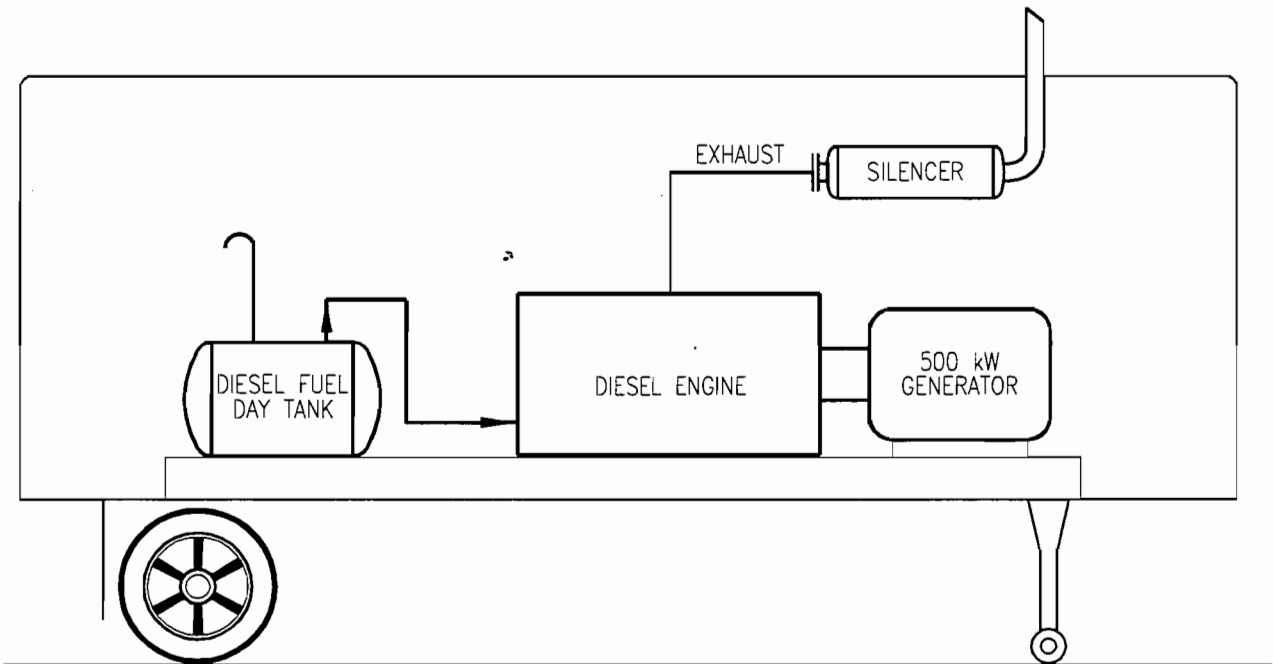
4" Gen./Expander Lube Oil Vapor Extractor

Miscellaneous Vents and Relief Valves

1" Gas Vents


3/4" Gas Scrubber Vent

WALKDOWN INFORMATION			TECHNICAL ACCEPTANCE		
ORG	BY	DATE	ORG	BY	DATE
AS-BUILT INFORMATION			ENGINEERING ORGANIZATION		



MOBILE DIESEL GENERATOR

BAR CODE

 FPL	SYSTEM YY	DISCIPLINE M	PLANT/UNIT LAUDERDALE PLANT
	SCALE N/A	CAD FILE NAME FL005474	TITLE EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU13
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME FL005474	

0	7-14/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	SHEET	REV
PFL4-M0114-YY	1 OF 1	0

Attachment PFLU13_2.txt

Fuel Analysis
No. 2 Distillate oil (typical)⁴

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F)	35.0 ²	30 - 40 ¹
Heat content (Btu/bbl)	19,130 ³	none
% sulfur	0.3 - 0.5 ¹	0.5 maximum ¹
% nitrogen	no specification	none
% ash	<0.01 ²	0.01 ¹

Footnotes:

- (1) Data taken from FPL fuel specifications.
- (2) Data taken from laboratory analysis.
- (3) Data taken from the Lauderdale Site Certification Application
- (4) The values are "typical" based upon the following:
 - Information gathered by FPL through laboratory analysis, and
 - FPL's fuel purchasing specifications. It should be noted that the analytical results obtained from grab samples taken at any given time may vary from those listed.

Attachment PFLU13_6.txt

Procedures for Startup / Shutdown

The emergency diesel generator is the main backup emergency electrical power supply component for the power plant. The function of the emergency diesel generator is to supply electric power to key power plant equipment during emergency loss-of-power situations. This equipment is typically test-run on a monthly basis for 1 to 2 hours to ensure that it will function properly when needed in an emergency.

Startup for the emergency diesel generator begins with actuating a switch which operates an air start motor on the diesel engine which "turns over" the diesel engine until ignition of the diesel fuel commences.

Shutdown is performed when the normal electric power supply to plant equipment is restored. Shutdown is performed by shutting off the diesel fuel supply to the emergency diesel generator.

Best Operating Practices include proper maintenance of the diesel engines by trained personnel on the generating unit, and the purchase of diesel fuel that also meets strict specifications. On occasion, maintenance personnel from the diesel generator manufacturer may be utilized to perform more extensive overhaul work.

If excess emissions are suspected during operation of the emergency diesel, appropriate measures to minimize the duration of the event may include shutting down the equipment and investigating the cause of the opacity.

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : 1 Emission Unit # : 14

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

- [X] The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
- [] The emissions unit addressed in this Emissions Unit Information Section is a unregulated emissions unit.

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): 3

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

**B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)**

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): This EU section addresses VOC losses from solvent usage.
2. Emissions Unit Identification Number: 034 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): VOC losses from solvent useage are currently limited by air operating permit AO 06 230614.

Emissions Unit Control Equipment

A. Control Equipment # : 1

1. Description (limit to 200 characters):
2. Control Device or Method Code:

B. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

C. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

**C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)**

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY):
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Model Number:
4. Generator Nameplate Rating: MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: Units:
4. Maximum Production Rate: Units:
5. Operating Capacity Comment (limit to 200 characters): This emission unit only addresses VOC emissions from solvent losses, which comprise a portion of the 99.92 tons, which is the facility wide limit (exclusive of CTs) .

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:	
hours/day	days/week
weeks/yr	8760 hours/yr

**D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)**

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

List of Applicable Regulations (Required for Category I applications and Category III applications involving Title-V sources. See Instructions.)

Emissions Unit ID 14

F.A.C. 62-210.700(4)	F.A.C. 62-210.900(5)	F.A.C. 62-256.500	F.A.C. 62-256.600 F.A.C. 62-296.320(1) F.A.C. 62-296.400
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**E. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

Information for Facility-ID 1 Emission Unit # : 14

1. Identification of Point on Plot Plan or Flow Diagram: Fug VOC-solvent	
2. Emission Point Type Code (1,2,3,4) : 4	
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Not Applicable	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Not Applicable	
5. Discharge Type Code (D, F, H, P, R, V, W) : F	
6. Stack Height:	ft
7. Exit Diameter:	ft
8. Exit Temperature:	°F
9. Actual Volumetric Flow Rate:	acfm
10. Percent Water Vapor:	%
11. Maximum Dry Standard Flow Rate:	dscfm
12. Nonstack Emission Point Height:	ft
13. Emission Point UTM Coordinates: Zone: East: North:	
14. Emission Point Comment (limit to 200 characters): Many of the fields on this stack/vent information page are not applicable to fugitive emissions.	

**F. SEGMENT (PROCESS/FUEL) INFORMATION
(Regulated and Unregulated Emissions Units)**

Segment Description and Rate:

Information for Facility_ID :1 Emission Unit #: 14 Segment #: 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): VOC's from solvent use
2. Source Classification Code (SCC):
3. SCC Units: tons per year
4. Maximum Hourly Rate:
5. Maximum Annual Rate: 99.92
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): No SCC code was found for VOC fugitives from solvent losses. The max. annual rate = the current permit limit in TPY for solvent losses from the tanks and simple-cycle gas turbines.

**G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)**

Information for Facility_ID: 1 Emission Unit #: 14

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	NA	NA	SM

**H. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units Only - Emissions Limited Pollutants Only)**

Information for Facility_ID: 1 Emission Unit #: 14 Pollutant #: 1

Pollutant Detail Information

1. Pollutant Emitted:	Volatile Organic Compounds
2. Total Percent Efficiency of Control:	%
3. Potential Emissions:	lbs/hr 99.92 tons/yr
4. Synthetically Limited? (Yes/No):	Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3):	3 0 to 99.92tons/yr
6. Emission Factor:	Units
Reference:	tracking material
7. Emissions Method Code: (0, 1, 2, 3, 4, 5):	0 [] 0 [] 1 [] 2 [] 3 [] 4 [] 5
8. Calculation of Emissions (limit to 600 characters):	Plant records are available upon request.
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):	Lauderdale facility has a current permit limit for loss of solvents for maintenance activities. VOC fugitives include estimates for maintenance parts cleaning, aerosol can usage and painting.

**Information for Facility_ID: 1 Emission Unit #: 14 Pollutant #: 1
Basis For Allowable Emission #: 1**

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 99.92 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 99.92 tons/yr
5. Method of Compliance: Tracking of plant purchases, inventory on-hand, and waste shipments.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) (limit to 200 characters): The Lauderdale plant has a current permit restriction on losses of VOC from solvents, given in air operating permit AO-06-230614.

**I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : 1 Emission Unit #: 14

Visible Emissions Limitation #: 1

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: None proposed
5. Visible Emissions Comment (limit to 200 characters): The on-site use of solvents is subject to the general visible emissions standard in 62-296.310(2), but the likelihood of an exceedance of the standard is remote.

**J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit #: 14
Continuous Monitor #:

Continuous Monitoring System

1. Parameter Code:		
2. Pollutant(s):		
3. CMS Requirement Code(R/O):	Rule	/ Other
4. Monitor Information: Manufacturer:		
Model Number:		Serial Number:
5. Installation Date (DD-MON-YYYY):		
6. Performance Specification Test Date (DD-MON-YYYY):		
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for solvent losses.		

**K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT
TRACKING INFORMATION
(Regulated and Unregulated Emissions Units)**

Information for Facility-ID : 1 Emission Unit # : 14

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

- [1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.
- [2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.
- [5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM
SO2
NO2

4. Baseline Emissions:

PM	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
The PSD Information section is not applicable to this emission unit.

**L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Information for Facility-ID : / Emission Unit # : 14

Supplemental Requirements for All Applications

1. Process Flow Diagram : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: Not Applicable Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PFL14_10.txt Attached Document ID / Not Applicable
11. Alternative Modes of Operation (Emissions Trading) : Not Applicable Attached Document ID / Not Applicable
12. Identification of Additional Applicable Requirements : PFL5_12.txt Attached Document ID / Not Applicable
13. Enhanced Monitoring Plan : Not Applicable Attached Document ID / Not Applicable
14. Acid Rain Permit Application Acid Rain Application - Phase II (Form No. 17-210.900(1)(a)) Attached Document ID: Not Applicable Repowering Extension Plan (Form No. 17-210.900(1)(b)) Attached Document ID: Not Applicable New Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Retired Unit Exemption (Form No. 17-210.900(1)(c)) Attached Document ID: Not Applicable Not Applicable