Florida Power & Light Company, P.O. Box 088801, North Palm Beach, FL 33408-8801

VIA AIRBORNE EXPRESS

June 10, 1996

Clair H. Fancy, P.E., Chief
Bureau of Air Regulation
State of Florida
Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: Submittal of FPL Cutler Plant Title V Application

Dear Mr. Fancy:

Enclosed, pursuant to DEP Rules 62-210.300(2), F.A.C., and 62-213.420(1)(a)1.a., F.A.C., please find four (4) hard copies of the subject Title V permit application. Due to the recent FDEP recall of the ELSA program, the diskettes containing the electronic application are not included at this time. FPL has worked diligently to prepare an electronic submittal and will submit diskettes containing the electronic application at a later date (when the ELSA program deficiencies have been resolved).

If you have any questions regarding this application, please do not hesitate to contact me at (561) 625-7661.

Very truly yours,

Richard Piper
Environmental Specialist
Florida Power & Light Company

cc: DEP Southeast District Office (w/o att)

Working
DRAFT

Table of Contents

Cutler Title V Application

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: FPL Cutler Power Plant
3. Facility Identification Number : Unknown 0250001
4. Facility Location Information: Facility Street Address: 14925 SW 67 Avenue City: Miami County: Dade Zip Code: 33158
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: Adalberto Alfonso
   Title : Plant General Manager

2. Owner or Responsible Official Mailing Address:

   Organization/Firm: FPL Environmental Affairs 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: 3052466060 Fax: 3052466905

4. Owner or Responsible Official Statement:

   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.*

   Signature

   5/31/96

   Date

* 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.

Emissions Unit Id	Description of Emissions Unit	Permit Type
01	Tangentially-fired Steam Generator, Un it 5 (ARMS ID # 50DAD10000103)	
02	Tangentially-fired Steam Generator, Un it 6 (ARMS ID # 50DAD10000104)	
03	Unregulated Emission Units	

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 : N/A
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 & Appl. Sciences Street Address: 6241 NW 23rd Street City: Gainesville State: FL Zip Code: 326531500
3. Professional Engineer Telephone Numbers: Telephone: 3523365600 Fax: 3523366603

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 her [X] if so), I further certify that each emissions unit described inthis 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 Kenneth T. Kosky Date 6/15/96

(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 Department
Street Address: P.O. Box 088801
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 FPL Cutler Power Plant, which is located on the edge of Biscayne Bay, in Dade County, Florida.

The plant consists of two conventional steam electric generating stations, designated as units 5 and 6, one distillate fuel oil storage tank, and one unleaded gasoline storage tank.

Unit 5 is comprised of a Combustion Engineering outdoor-type boiler/steam generator and Westinghouse outdoor reheat condensing steam turbine which drives a hydrogen-cooled generator with generator nameplate rating of 74.5 megawatts.

Unit 6 is comprised of a Combustion Engineering outdoor-type reheat boiler/steam generator and a General Electric tandem compound single reheat turbine generator with generator nameplate rating of 162 megawatts.

Note that the megawatt ratings are based on information previously supplied to the PSC in the 10-year Site Plan.

`II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Information for Facility-Id : *1*

Facility Location and Type

1. Facility UTM Coordinates:
   Zone: 17 East: 570364 North: 2834904

2. Facility Latitude/Longitude:
   Latitude (DD/MM/SS): 25 - 37 - 52 Longitude (DD/MM/SS): 80 - 17 - 56

3. Governmental Facility Code: None (non-governmental facility)
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 : Gary Andersen
   Title : Environmental Specialist

2. Facility Contact Mailing Address:
   Organization/Firm: FPL Cutler Power Plant
   Street Address: 9700 SW 344 Street
   City: Florida City State: FL Zip Code: 33034 -

3. Facility Contact Telephone Numbers:
   Telephone: 3052466115 Fax: 3052466905

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) : N
7. Synthetic Minor Source of HAPs? (Yes/No) (Y/N) : N
8. One or More Emissions Units Subject to NSPS? (Yes/No) (Y/N) : N
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 subject to the asbestos NESHAP; 40 CFR 61 Subpart M.

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*

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 Dade County DERM Chp 24-17 (not part of SIP) Dade County Derm Chp 24-19(6) (not part of SIP) Dade County Derm Chp 24-20 (not part of SIP) Dade County Derm Chp 24-24 (not part of SIP) Dade County Derm Chp 24-25 (not part of SIP) Dade County Derm Chp 24-25.2 (not part of SIP) Dade County Derm Chp 24-25.4 (not part of SIP) Dade County Derm Chp 24-26(1)(e) (not part of SIP) Dade County Derm Chp 24-27 (not part of SIP) Dade County Derm Chp 24-35.1(8) (not part of SIP) Dade County Derm Chp 24-36 (not part of SIP) Dade County Derm Chp 24-37(1),(3) (not part of SIP) Dade County Derm Chp 24-38 (not part of SIP) Dade County Derm Chp 24-39 (not part of SIP) Dade County Derm Chp 24-54(3) (adopts Chp 403 and subs. DEP rules by ref.)	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. 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) 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) 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

C. FACILITY POLLUTANTS

Facility Pollutant Information :

1. Pollutant Emitted:	2. Pollutant Classification
SO2	A
NOX	A
CO	A
PM	A
PM10	A
VOC	A

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications For Facility :*I*

1. Area Map Showing Facility Location: PCUFS_1.BMP ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
2. Facility Plot Plan: PCUFS-2.BMP ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
3. Process Flow Diagram(s): PCUFS_3.BMP ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: PCUFS_4.txt ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
5. Fugitive Emissions Identification : PCUFS_5.txt ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
6. Supplemental Information for Construction Permit Application: NA **(Enter the Attached Document ID, NA - Not Applicable)**

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**
8. List of Equipment/Activities Regulated under Title VI: PCUFS_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: PCUFS_9.txt ✓ **(Enter the Attached Document ID, NA - Not Applicable)**
10. Alternative Modes of Operation (Emissions Trading): NA **(Enter the Attached Document ID, NA - Not Applicable)**
11. Identification of Additional Applicable Requirements: PCUFS_11.txt ? **(Enter the Attached Document ID, NA - Not Applicable)**
12. Compliance Assurance Monitoring Plan: NA **(Enter the Attached Document ID, NA - Not Applicable)**

13. Risk Management Plan Verification: PLANNED

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

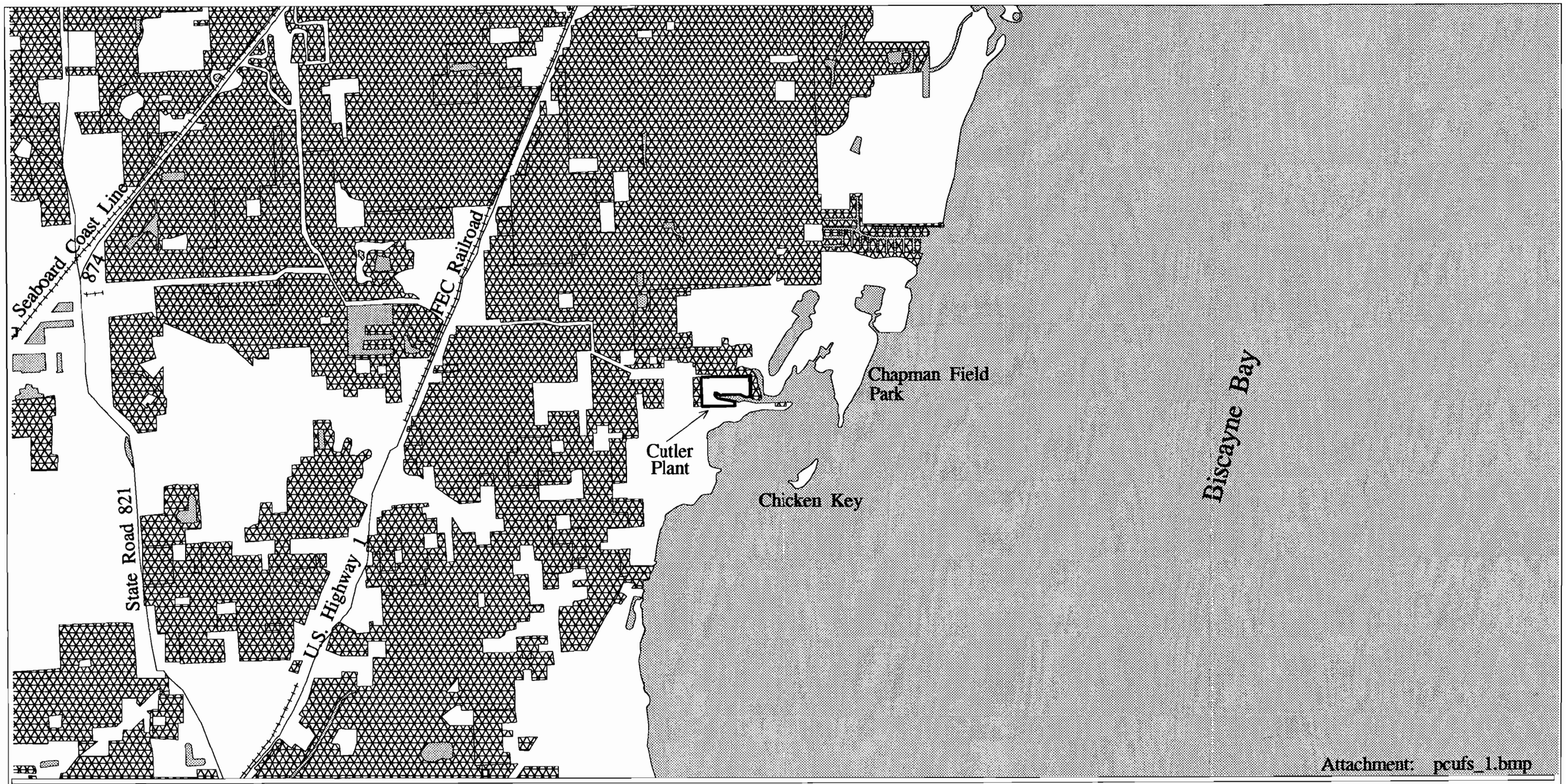
Plan to be Submitted to Implementing Agency by Required Date

Not Applicable (NA)

14. Compliance Report and Plan: NA
(Enter the Attached Document ID, NA - Not Applicable)

PCUFS_13.TXT

15. Compliance Statement (Hard-copy Required): PCUFS_14.txt ✓
(Enter the Attached Document ID, NA - Not Applicable)



Cutler Plant Area Map
Dade County

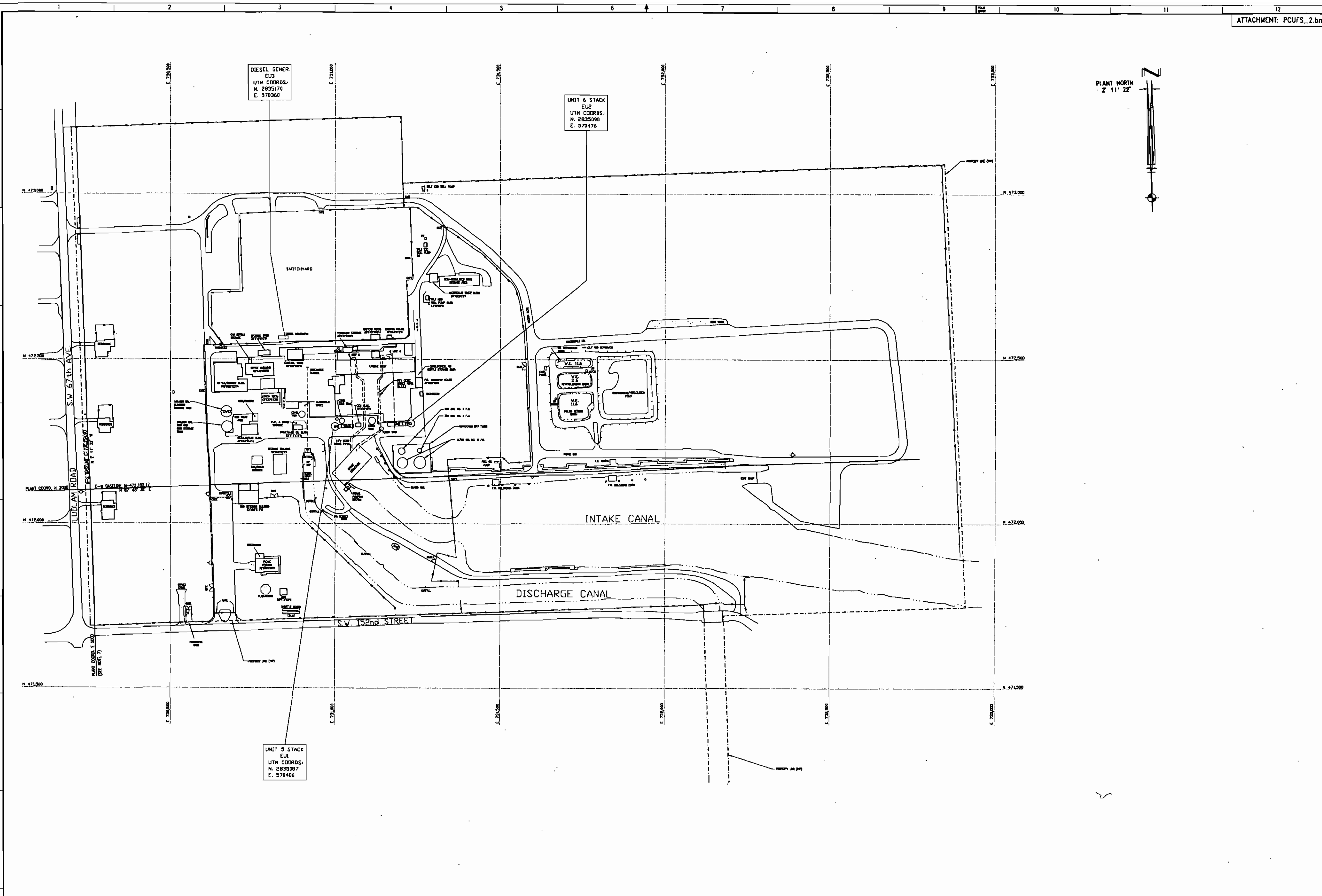
FPL Environmental Affairs

N W E S

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

SOURCE: Land use data provided by the South Florida Management District – 1993

/export/home/ron/maps/pcu-site.map (3-95)



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SCALE: 1"=100'	CAD FILE NAME: CU000695	TITLE: FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V	
DRAWING SIZE: E(30"X42")	FPL ARCHIVE NAME: CU000695		
DRAWING NUMBER: PCU5-M0002-YY		SHEET: 1 OF 1	REV: 0

FPL

REV	DATE	REVISION DESCRIPTION
0	7/19/95	ISSUED FOR TITLE V PERMIT

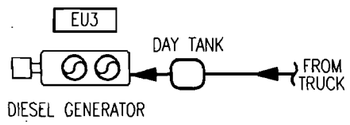
ATTACHMENT: PCUFS_3.bmp

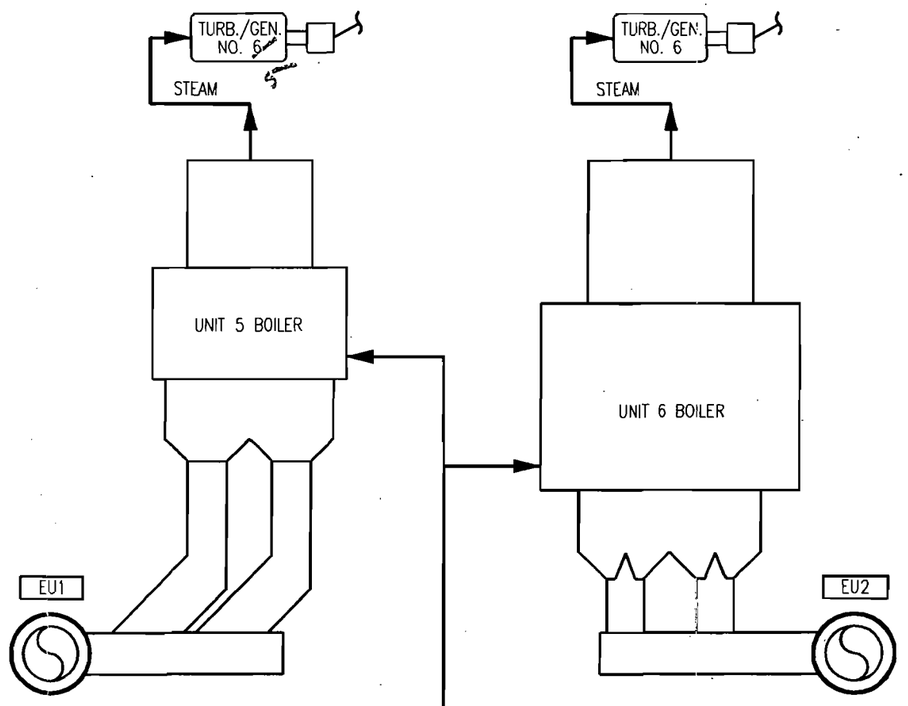
TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

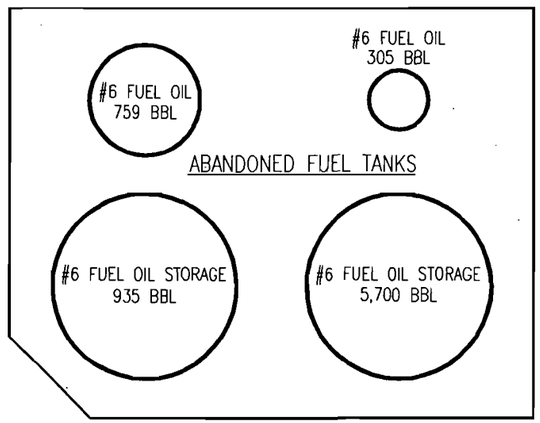
WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"







STEAM GENERATING UNITS 5&6

NOTES:

1. EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

EU *

EMISSION UNIT NUMBER

REV	DATE	REVISION DESCRIPTION	PWB BY	PWB CH	CSP COR	CSP APR	ETS ORG
0	6/2/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
N/A	M	CUTLER PLANT–UNITS 5&6	
SCALE: N/A	CAD FILE NAME: CU000697	TITLE: FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 TITLE V	
DRAWING SIZE: B(11"X17")	FPL ARCHIVE NAME: CU000697		
DRAWING NUMBER: PCU5-M0101-YY		SHEET: 1 OF 1	REV: 0

GSYM/FPGBDR-B 5/93

Attachment PCUFS_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 particulate matter include:

- fugitive dust from 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 62-296.310 F.A.C.:

- The facility constructs and operates 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 cheical products are cleaned up as soon as practicable.

- Vehicles are restricted to slow speeds on the plant site

Attachment PCUFS_5.txt
Fugitive Emission Identification

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PCUFS_4.DOC. FPL is not aware of fugitive emissions of sulfur dioxide, nitrogen oxides, carbon monoxide or lead compounds which would exceed the reporting thresholds defined in the permit application instructions.

Fugitive HAPs Emissions

FPL is not aware of fugitive emissions of HAP pollutants which would exceed the reporting thresholds defined in the permit application instrucitons.

Attachment PCUFS_9.txt
Alternative Methods of Operation

There are no known methods of operation at the current time at Cutler plant which would simultaneously affect emissions at more than one emissions unit but would not constitute emissions trading.

Attachment PCUFS_13.txt
Cutler 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 PCUFS_14.txt
Cutler 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.

C. Cesar
Signature, Responsible Official

5/31/96
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):
   Unit 5 75-MW Class Tang fired Steam Generator

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): Y

5. Emissions Unit Major Group SIC Code: 49

6. Emissions Unit Comment (limit to 500 characters):
   The generator nameplate rating is taken from the 10-year Site Plan the FPL supplies annually to the Florida Public Service Commission. Actual generator output may exceed the value given, or may vary seasonally, with changes in unit efficiency, or due to fluctuations in system load demand.

   The method of compliance for determining the heat input rate is fuel sampling and analysis in conjunction with fuel flow

Emissions Unit Control Equipment

A. Control Equipment # : *1*

1. Description (limit to 200 characters):
   Multiple Cyclone without Fly Ash Reinjection

2. Control Device or Method Code: Multiple Cyclone w/o Fly Ash Reinjection

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

Unit No. 5

1. Initial Startup Date (DD-MON-YYYY): 01/01/54
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Combustion Engineers Model Number: NA
4. Generator Nameplate Rating: 74.5 MW 95 ✓ OK
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 940 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): Heat input rate = the currently permitted max. value while firing natural gas. The method of compliance for heat input rate is fuel sampling and analysis in conjunction with fuel flow measurement.

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

40 C.F.R. 279.72 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 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)(iii) 40 C.F.R. 72.9(c)(2) 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 G-4 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(d) 40 C.F.R. 75.10(f) 40 C.F.R. 75.10(g) 40 C.F.R. 75.11(b)(1) 40 C.F.R. 75.11(c)(3) 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(a) 40 C.F.R. 75.13(b) 40 C.F.R. 75.14(a) 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(d) 40 C.F.R. 75.20(f) 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) 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)(1) 40 C.F.R. 75.30(a)(2) 40 C.F.R. 75.30(a)(3) 40 C.F.R. 75.31 40 C.F.R. 75.32 40 C.F.R. 75.33 40 C.F.R. 75.35 40 C.F.R. 75.36 40 C.F.R. 75.4(a)(4)(ii) 40 C.F.R. 75.5 40 C.F.R. 75.51(c) 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)(1) 40 C.F.R. 75.54 40 C.F.R. 75.55(c) 40 C.F.R. 75.55(e) 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. 75.61(b) 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. 76.13 40 C.F.R. 77.3 40 C.F.R. 77.5(b) 40 C.F.R. 77.6 Dade County Derm Chp 24-14 (state only) Dade County DERM Chp 24-24 (state only) Dade County DERM Chp 24-26(1)(e) (state only) Dade County DERM Chp 24-37(1), (3) (state only) Dade County DERM Chp 24-39 (state only) Dade County DERM Chp 24-54(3) (state only) Dade County DERM Chp 25-25.4 (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 (2) F.A.C. 62-210.700 (3) F.A.C. 62-210.700 (4) F.A.C. 62-210.700 (6) F.A.C. 62-214.300 F.A.C. 62-214.330	F.A.C. 62-214.350 (2) F.A.C. 62-214.350 (3) F.A.C. 62-214.350 (5) F.A.C. 62-214.350 (6) F.A.C. 62-214.370 (1) F.A.C. 62-214.370 (3) F.A.C. 62-214.370 (4) F.A.C. 62-214.370 (7) F.A.C. 62-214.430 F.A.C. 62-296.405(1)(a) paragraph 2 F.A.C. 62-296.405(1)(b) F.A.C. 62-296.405(1)(c)1.j. F.A.C. 62-296.405(1)(e)(1) F.A.C. 62-296.405(1)(e)(2) F.A.C. 62-296.405(1)(e)(3) F.A.C. 62-296.405(1)(f)1.a.(i) F.A.C. 62-296.405(1)(f)1.b. F.A.C. 62-296.500(2)(a)1. F.A.C. 62-296.500(2)(c) F.A.C. 62-296.570(4)(a)3. F.A.C. 62-296.570(4)(a)4. F.A.C. 62-296.570(4)(b)3. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(1) F.A.C. 62-297.310(2)(b) F.A.C. 62-297.310(3) F.A.C. 62-297.310(4)(a)1. F.A.C. 62-297.310(4)(a)2.c. 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(4)(e) 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)2. F.A.C. 62-297.310(7)(a)3. F.A.C. 62-297.310(7)(a)4. F.A.C. 62-297.310(7)(a)5. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(7)(c) F.A.C. 62-297.310(8) Table 62-297.310-1

NSR RACT

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: EU-1 Cutler Boiler 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: Emission unit 1, Cutler Unit 5 boiler.
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 156.5 ft
7. Exit Diameter: 14 ft
8. Exit Temperature: 285.4 °F
9. Actual Volumetric Flow Rate: 467837acfm
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: 570406 North: 2835087
14. Emission Point Comment (limit to 200 characters): The values in fields 8 and 9 are from compliance tests (EPA Method 17) on March 1, 1984.

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

Natural Gas

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Natural gas burned in Unit 5 Boiler
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 0.895
5. Maximum Annual Rate: 7840.2
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): % S = [10 gr of S/1000 CF gas]*[1 lb S/7000 gr]*[CF gas/0.046 lb gas]*100 = 0.0031 % S

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

Segment Description and Rate: Cleaning Waste

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 5 Boiler chemical cleaning waste evaporation. This process may be undertaken while firing natural gas.
2. Source Classification Code **(SCC):** 1-01-013-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 3
5. Maximum Annual Rate: 500
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): Items 6,7,8 & 9 do not apply. This activity to be undertaken on a periodic basis in accordance with DARM guidance, and EPA waste rules (40 CFR 279.72).

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

Segment Description and Rate: Residual Oil (Startup)

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Residual oil burned in Unit 5 Boiler
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 5.92
5. Maximum Annual Rate: 51859.2
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.1
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Residual oil is currently limited to being fired during startup only.

G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)

Information for Facility_ID: *1* Emission Unit #: *1*

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	NA	NA	EL
NOx	NA	NA	EL
CO	NA	NA	NS
PM	076	NA	EL
PM10	NA	NA	NS
VOC	NA	NA	NS

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

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

Pollutant Detail Information

1. Pollutant Emitted: Sulfur Dioxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 990 lbs/hr 4336.2 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 1.1 **Units** lb/mmBtu Reference: ~~F.A.C. 62-296.405(1)(c)i.~~ ok
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): 900 mmBtu/hr* 1.1 lb/mmBtu = 990 lb/hr (990 lb/hr * 8760 hr/yr) / 2000 lb/ton = 4336.2 tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Dade County code section 24-17(2)(c) limits fuel oil firing to startup only and limits SO2 emissions to 0.55 lb/mmBtu, but this is not a federally-enforceable limitation.

2.

Information for Facility_ID: 1 Emission Unit #: 1 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: 1.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 990 lbs/hr 4336.2 tons/yr
5. Method of Compliance: Fuel sampling & analysis
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **182** 0.55 lb/mmBtu is the current non-federally-enforceable limit on SO2 emissions [Dade County code section 24-17(2)(c)]. Equivalent allowable emissions are given for liquid fuel firing.

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: %
3. Potential Emissions: 180 lbs/hr 788.4 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.2 **Units** lb/mmBtu Reference: DEP Rule 62-296.570(4)(b)4.
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): 0.2 lb/mmBtu * 900 mmBtu/hr = 180 lb/hr (180 lb/hr * 8760 hr/yr) / 2000 lb/ton = 788.4 tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Dade County Code Section 24-17(2)(c) limits fuel oil firing to startup only.

Information for Facility_ID: *1* **Emission Unit #:** *1* **Pollutant #:** *2*
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: 0.2 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 180 lbs/hr 788.4 tons/yr
5. Method of Compliance: Continuous Emission Monitoring
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **193** 0.2 lb/mmBtu is the current reg. limit [Rule 62-296.570(4)(b)4] on NOx emissions [30-day rolling avg - Rule 62-296.570(4)(a)4.]. Equivalent allowable emissions are given for liquid fuel firing.

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: 112.5 lbs/hr 492.75 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.125 **Units** lb/mmBtu Reference: DEP Rule 62-296.405(1)(b) and 62-210.700(3) OK
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): 0.125 lb/mmBtu * 900 mmBtu/hr = 112.5 lb/hr (112.5 lb/hr * 8760 hr/yr) / 2000 lb/ton = 492.75 Tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Dade County Code Section 24-17(2)(c) limits fuel oil firing to startup only. Emis. rate of 0.125 lb/mmBtu is a weighted average of 21/hr@ 0.1 plus 3 hr @ 0.3 lb/mmBtu.

OK

Emission Unit Information Section ____ of ____

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: 0.3 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 270 lbs/hr 147.8 tons/yr
5. Method of Compliance: DEP Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **197** Data for sootblowing / loadchanging [62-210.700(3)]. Equiv. allow. emis. based on 3hr of sootblowing /24hr. Stack test only req'd if fuel oil fired > 400 hr/yr. 1 test run / 3 is while sootblowing.

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: 0.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 94 lbs/hr 411.72 tons/yr
5. Method of Compliance: DEP Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **190** 0.1 lb/mmBtu = the current regulatory limit for PM.[Rule 62-296.340(1)(e)] Equiv. allow. emis. are for liquid fuel firing. Stack test is only required if fuel oil is fired for > 400 hrs /yr.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 60 % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): DEP Rule 62-296.405(1)(a) limits load changing conditions to 60% opacity for up to 3 hrs / 24 hrs, with up to four 6-minute periods of up to 100% if unit has an operational opacity CEM.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Rules 62-210.700(1) and (2), F.A.C. allow up to 100% opacity for an unlimited time during startup and shutdown, and up to 2 hrs/24 hrs for malfunctions.

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 Model Number: 42 Serial Number: 42-49686-284
5. Installation Date (DD-MON-YYYY): 10/11/94
6. Performance Specification Test Date (DD-MON-YYYY): 05/25/95
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)2.

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: 3300 Serial Number: N3L2497T
5. Installation Date (DD-MON-YYYY): 10/11/94
6. Performance Specification Test Date (DD-MON-YYYY): 05/25/95
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 data is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the lack of a flow monitor.

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

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

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	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
Cutler Unit 5 went on line 01/01/54 which pre-dates the major source PSD baseline date of 1/5/75.

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 : PCUU1_1.bmp ✓ Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PCUU1_2.txt ✓ Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PCUU1_3.txt ✓ Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PCUU1_4.txt 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 : PCUU1_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 : PCUU1_10.txt
Attached Document ID / Not Applicable

11. Alternative Modes of Operation (Emissions Trading) : NA
Attached Document ID / Not Applicable

12. Identification of Additional Applicable Requirements : PCUU1_12.txt
Attached Document ID / Not Applicable

13. Enhanced Monitoring Plan : NA
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

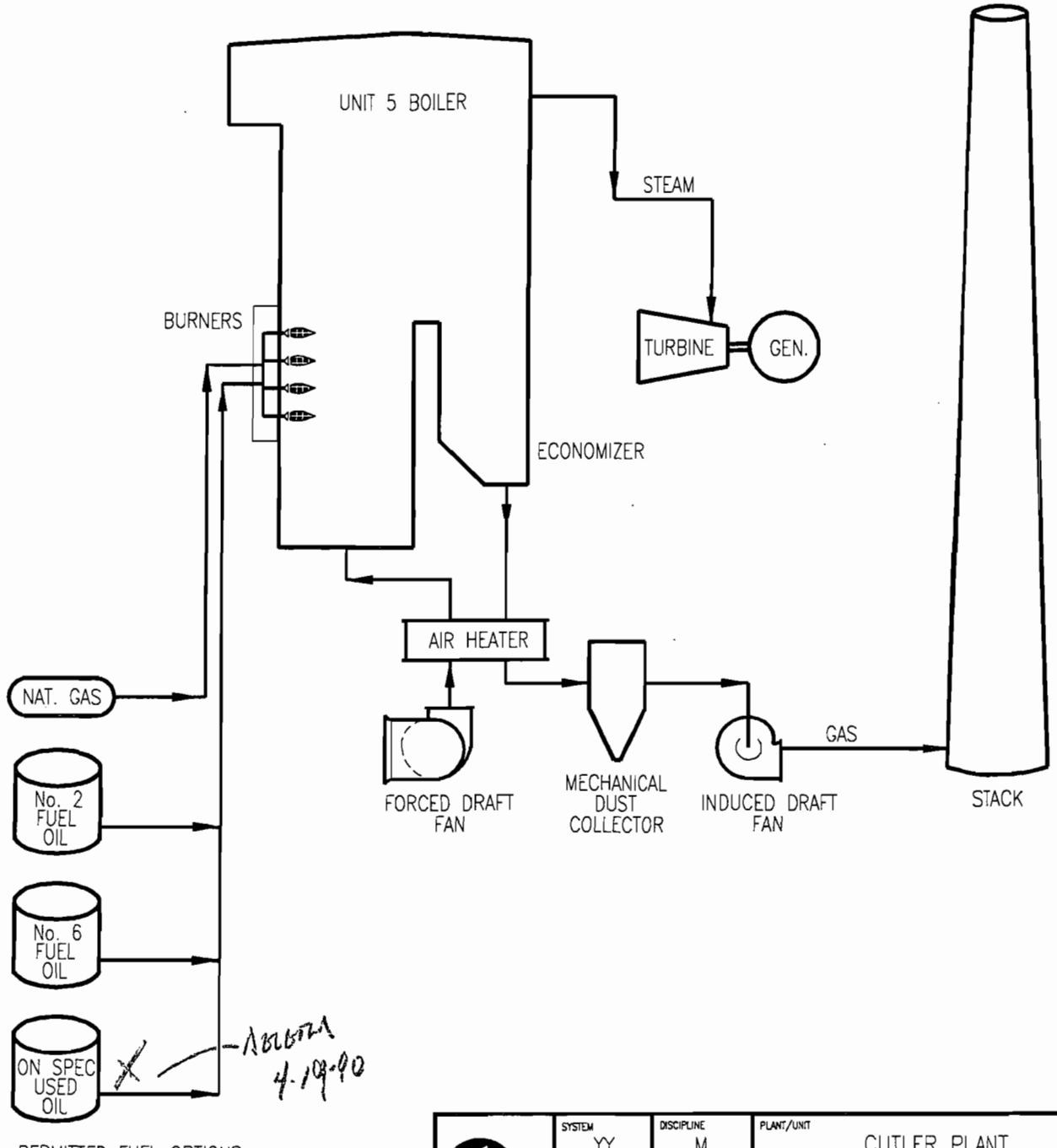
Repowering Extension Plan (Form No. 17-210.900(1)(b))
Attached Document ID:

New Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID:

Retired Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID:

Not Applicable

ATTACHMENT: PCUEU1_1.bmp



PERMITTED FUEL OPTIONS

4-19-90

TECHNICAL ACCEPTANCE | ENGINEERING ORGANIZATION | ORG | BY | DATE

WALKDOWN INFORMATION | AS-BUILT INFORMATION | ORG | BY | DATE

BAR CODE

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
0	6/6/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	CUTLER PLANT
SCALE: N/A	CAD FILE NAME: CU000698	TITLE: EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU1
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CU000698	

DRAWING NUMBER: PCU5-M0102-YY

SHEET: 1 OF 1 | REV: 0

FPGSYM/FPGBDR-A 9/90

FLORIDA POWER & LIGHT CO.
STACK SAMPLING FACILITIES
CUTLER

PCUU1_1.BMP

FOSSIL FUEL STEAM GENERATORS
UNIT 5

STACK SPECIFICATIONS

SAMPLING DIAMETER: 168 in.

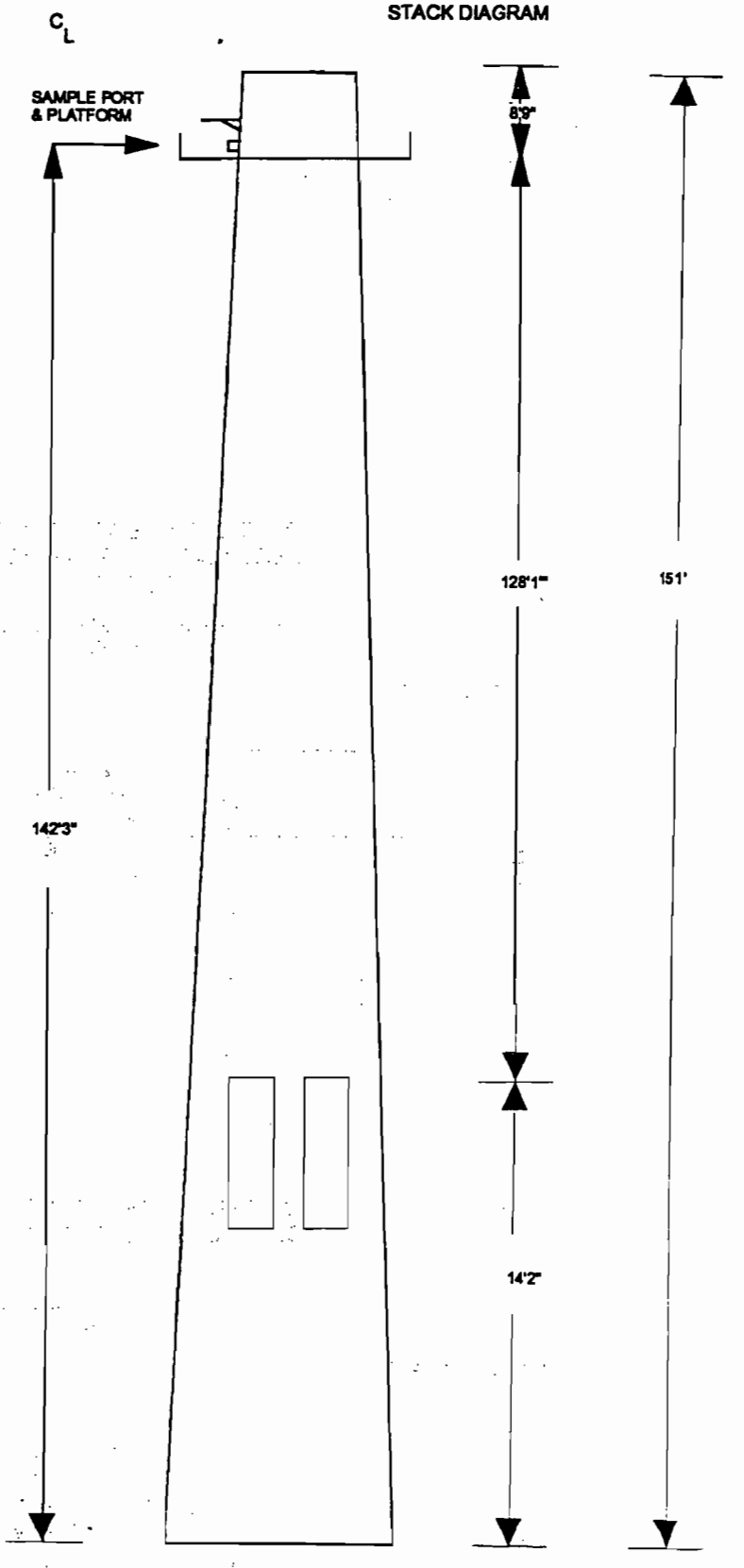
SAMPLING AREA: 153.9 sq. ft.

SAMPLING PORT DEPTH: 23.0 in.

No. OF PORTS: 1

NOTE: DRAWING IS NOT TO SCALE

STACK DIAGRAM



Access to the sampling ports is provided by a ladder. Channel iron with a trolley system is above the port for probe support. AC power is available on the platform and at the base of the stack.

FILE:PCU5TTLV.PRE
08/18/95

Attachment PCUU1_2.txt

Fuel Analysis
Natural Gas Analysis (typical)[2]

Parameter	Typical value	Max value
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 PCUU1_2.txt

Fuel Analysis
No.6 Oil Analysis (typical)[4]

Parameter	Typical value	Specifications
API gravity (@ 60° F)	6 - 12	none
Heat content(MBtu/bbl)	6,310 - 6420	6,340[1]
% Sulfur	none	0.5 max[3]
% Nitrogen	0.2 - 0.5[2]	none
% Ash	0.06 - 0.09[2]	0.10 max[1]

Footnotes:

(1) Data taken from FPL fuel specifications.

(2) Data taken from laboratory analysis.

(3) Maximum permitted from current air operation permit.

(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 PCUU1_2.txt

Fuel Analysis
No. 2 Distillate oil (typical)[3]

Parameter	Typical value	Specifications
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.

Attachment PCUU1_3.txt
Detailed Description of Control Equipment

A. Cyclone Separator - This steam generator (boiler) is supplied with two 104B-GHS #19-684 UOP tubular mechanical dust collectors with side inlet and universal outlet. Each dust collector consists of 695 tubes and four dust collection hoppers. The dust collector has the following efficiency at 2.55 inches of water @ peak load:

Particle Range (micron)	Mean Diameter (micron)	Estimated Efficiency (percent)
0 - 5	2.5	30.3
5 - 10	7.5	66.2
10 - 20	15	88.6
20 - 45	32.5	99.1
45 +	45	99.5

Attachment PCUU1_6.txt

Startup & Shutdown Procedures - Minimizing Excess Emissions

Startup of the fossil-fuel boiler begins when fuel (either natural gas or oil) is introduced into one or more burners within the boiler and lighted (commencement of combustion). Startup is complete and steady-state operation begins when the combustion process has stabilized and the megawatt load on the unit is stable.
Shutdown of the fossil-fuel boilers begins when unit megawatt load is decreased to below 10% of maximum and continues until the final burner gun is removed from service and the final Induced-draft or Forced-draft fan is removed from service.

Excess emissions may be detected during all modes of boiler operation by any one of several continuous emissions monitors. Continuous emission monitors are currently in place for NO_x, SO_2 and opacity. An audible and visual alarm are activated whenever permitted values for any of the above parameters are approached.

Countermeasures which may be taken in the event of excess emissions include, but are not limited to:

- proper excess air adjustments
- recognizing and removal of faulty burners
- fuel oil temperature adjustments
- proper and timely operation of boiler cleaning devices
- removal of the unit from system-dispatch mode
- reduction of unit megawatt load
- stopping and restarting of boiler cleaning devices
- lowering load rate
- pressure rate changes

Best Operational Practices to prevent excess emissions, and knowledge of the appropriate countermeasures to take if an excess emissions condition exists, are taught during routine operator training.

Attachment PCUU1_10.txt
Alternative Methods of Operation

Operation at Various Capacities and Heat Input Rates
The Cutler Unit 5 boiler may be operated up to 8760 hours per year at heat input rates from zero to 170 MMBtu per hour on No.#6 oil, and from zero to 940 MMBtu per hour on natural gas. When a blend of fuel oil and natural gas are burned, the heat input is prorated based upon the percent heat input of each fuel.

Different Fuel Types
The unit may be fired with a variable combination of No. 6 residual fuel oil, natural gas, or No. 2 fuel oil.

Current emissions limitations are as follows:

Pollutant	Emission Limit
Particulate matter : steady-state	0.1 lb/MMBtu
Particulate matter : sootblowing	0.3 lb/MMBtu
Sulfur dioxide	0.55 lb/MMBtu
Nitrogen oxides	0.2 lb/MMBtu (30-day rolling average)

Soot blowing
The unit may blow soot for up to 24 hours per day, so long as excess emissions are limited to 60% opacity for 3 hours in 24 hours with four 6-minute periods of up to 100% opacity.

Utilization of Additives
Additives such as Magnesium hydroxide $Mg(OH)_2$ are added to the boiler periodically at various loads. When magnesium hydroxide is used, it is injected into the boiler via the I.K. soot blower lances and through manual hand lances on a batch basis, rather than continuously. The dosage rate is based on the quantity of fuel burned and the amount of ash in the fuel. FPL reserves the right to use other additives if they are suitable.

Attachment PCUU1_10.txt
Alternative Methods of Operation

Evaporation of Spent Boiler Chemical Cleaning Chemicals

On a periodic basis, as part of routine maintenance, the inside of the steam generator tubes (boiler tubes) at Cutler Unit 5 are cleaned using a series of chemical solutions that remove deposited scale which adversely affects the efficiency and reliability of the generating units.

The solutions and rinsewaters are collected in large mobile tanks ("frac tanks") pursuant to guidance issued by the Department. Upon completion of the cleaning process and prior to disposal of the spent cleaning solution and rinses, representative sampling of the liquids collected in the "frac tanks" is conducted as per 40 CFR 261, Appendix I, to determine the hazardous waste status of the accumulated wastewater, using Toxicity Characteristic Leaching Procedure (TCLP) analysis. If the wastewater is determined to be hazardous, it will be managed as such in accordance with 40 CFR 262.34, 40 CFR 265 Subpart I, and 40 CFR 268 with respect to generators accumulating and treating waste in containers and tanks. An appropriate waste analysis plan will be developed to determine and document the pre- and post-treatment characteristics of the wastewater. Hazardous waste may also be transported to an approved hazardous waste facility for the appropriate disposal.

If the spent cleaning solution and rises are determined to be non-hazardous, they are then disposal by evaporation in the units boiler. Introduction into the boiler will occur at a rate that will not cause an exceedence of the opacity limit of the unit in which evaporation is occurring (in this case, 40 percent opacity).

Attachment PCUU1_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).

NOx RACT (A013-173751) - Three items were identified as action to be undertaken by FPL in order to satisfy RACT requirements:

1. The boiler fuel firing rate shall not exceed 290 mmBtu/hr during fuel oil firing (start up) or 1,620 mmBtu/hr during gas firing. Each boiler can operate continuously (8760 hours per year).*FPL uses fuel sampling and analysis to monitor the heat input rate to the boiler.*

2. NOx emissions from the boiler stack shall not exceed the following limits 0.2 lbs/mmBtu or 324 lbs/hr on an average of 30 days.These limit shall apply at all times expect during periods of startup, shutdown, or malfunction as provided by F.A.C rule 17-210.700. *FPL has a continuous emission monitor (CEM) to comply with this condition.*

3. Installation of a continous monitoring system for NOx emission.*This system has been installed.*

A013-173751 Permit contains the following conditions:

1. During start-up the boiler shall be fired either with no.6 residual oil with 0.5 percent maximum sulfur content or no.2 fuel oil with 0.5 percent sulfur content or 100 percent natural gas.*FPL fires the fuels as specified, and maintains records to demonstrate this.*

2. Operation other than start-up - 100 percent natural gas shall be fired. *FPL maintains records to demonstrate this.*

4.The maximum allowable emissions from each boiler shall not exceed the following emission limitations.

MAXIMUM ALLOWABLE EMISSION LIMITS

Pollutant	Fuel	lb/mmBtu	Test Method
Pariculate Matter Steady state	Oil	0.1	EPA Method 5 or 17
SO2	Oil	0.55	Monthly fuel analysis

For compliance with each of these emission limits, FPL uses annual stack tests, and the monthly fuel analysis as specified. Records are maintained to demonstrate compliance.

3. To determine compliance with the oil firing heat input limitation, the Permittee shall maintain daily records of fuel consumption for each boiler 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.

4. 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, but if changes are contemplated, will notify the department as specified.*

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):
   Unit 6 160-MW Class Tangentially fired Steam Generator

2. Emissions Unit Identification Number: 004
   (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):
   The generator nameplate rating is taken from the 10-year Site Plan the FPL supplies annually to the Florida Public Service Commission. Actual generator output may exceed the value given, or may vary seasonally, with changes in unit efficiency, or due to fluctuations in system load demand.

   The method of compliance for determining the heat input rate is fuel sampling and analysis in conjunction with fuel flow p

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):

2. Control Device or Method Code:

B. Control Equipment # : *1*

1. Description (limit to 200 characters): Multiple cyclone without fly ash reinjection
2. Control Device or Method Code: Multiple Cyclone w/o Fly Ash Reinjection

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): 01/01/55

2. Long-term Reserve Shutdown Date (DD-MON-YYYY):

3. Package Unit:
Manufacturer: Combustion Engineers Model Number: NA

4. Generator Nameplate Rating: 162 MW

5. Incinerator Information:
Dwell Temperature: °F
Dwell Time: seconds
Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 1620 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):
Heat input rate = the currently permitted max. value while firing natural gas. The method of compliance for heat input rate is fuel sampling and analysis in conjunction with fuel flow measurement.

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 C.F.R. 279.72
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
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)(iii)
40 C.F.R. 72.9(c)(2)
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 G-4
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(d)
40 C.F.R. 75.10(f)
40 C.F.R. 75.10(g)
40 C.F.R. 75.11(b)(1)
40 C.F.R. 75.11(c)(3)
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(a)
40 C.F.R. 75.13(b)
40 C.F.R. 75.14(a)
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(d)
40 C.F.R. 75.20(f)
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)
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)(1)
40 C.F.R. 75.30(a)(2)
40 C.F.R. 75.30(a)(3)
40 C.F.R. 75.31
40 C.F.R. 75.32
40 C.F.R. 75.33
40 C.F.R. 75.35
40 C.F.R. 75.36
40 C.F.R. 75.4(a)(4)(ii)
40 C.F.R. 75.5
40 C.F.R. 75.51(c)
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)(1)
40 C.F.R. 75.54
40 C.F.R. 75.55(c)
40 C.F.R. 75.55(e)
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. 75.61(b)
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. 76.13
40 C.F.R. 77.3
40 C.F.R. 77.5(b)
40 C.F.R. 77.6
Dade County Derm Chp 24-14 (state only)
Dade County DERM Chp 24-24 (state only)
Dade County DERM Chp 24-26(1)(e) (state only)
Dade County DERM Chp 24-37(1), (3) (state only)
Dade County DERM Chp 24-39 (state only)
Dade County DERM Chp 24-54(3) (state only)
Dade County DERM Chp 25-25.4 (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 (2)
F.A.C. 62-210.700 (3)
F.A.C. 62-210.700 (4)
F.A.C. 62-210.700 (6)
F.A.C. 62-214.300
F.A.C. 62-214.330

F.A.C. 62-214.350 (2)
F.A.C. 62-214.350 (3)
F.A.C. 62-214.350 (5)
F.A.C. 62-214.350 (6)
F.A.C. 62-214.370 (1)
F.A.C. 62-214.370 (3)
F.A.C. 62-214.370 (4)
F.A.C. 62-214.370 (7)
F.A.C. 62-214.430
F.A.C. 62-296.405(1)(a) paragraph 2
F.A.C. 62-296.405(1)(b)
F.A.C. 62-296.405(1)(c)1.j.
F.A.C. 62-296.405(1)(e)(1)
F.A.C. 62-296.405(1)(e)(2)
F.A.C. 62-296.405(1)(e)(3)
F.A.C. 62-296.405(1)(f)1.a.(i)
F.A.C. 62-296.405(1)(f)1.b.
F.A.C. 62-296.500(2)(a)1.
F.A.C. 62-296.500(2)(c)
F.A.C. 62-296.570(4)(a)3.
F.A.C. 62-296.570(4)(a)4.
F.A.C. 62-296.570(4)(b)3.
F.A.C. 62-296.570(4)(c)
F.A.C. 62-297.310(1)
F.A.C. 62-297.310(2)(b)
F.A.C. 62-297.310(3)
F.A.C. 62-297.310(4)(a)1.
F.A.C. 62-297.310(4)(a)2.c.
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(4)(e)
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)2.
F.A.C. 62-297.310(7)(a)3.
F.A.C. 62-297.310(7)(a)4.
F.A.C. 62-297.310(7)(a)5.
F.A.C. 62-297.310(7)(a)9.
F.A.C. 62-297.310(7)(c)
F.A.C. 62-297.310(8)

Table 62-297.310-1

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: EU-2 Cutler Boiler 6
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: Emission unit 2, Cutler Unit 6 boiler.
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 156.5 ft
7. Exit Diameter: 14 ft
8. Exit Temperature: 285.3 °F
9. Actual Volumetric Flow Rate: 560464 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: 570476 North: 2835090
14. Emission Point Comment (limit to 200 characters): The values in fields 8 and 9 are taken from complicane tests (EPA Method 17) run on February 29, 1984.

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): Natural gas burned in Unit 6 Boiler
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 1.543
5. Maximum Annual Rate: 13516.7
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): % S = [10 gr of S/1000 CF gas]*[1 lb S/7000 gr]*[CF gas/0.046 lb gas]*100 = 0.0031 % S

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 6 Boiler chemical cleaning waste evaporation. This process may be undertaken while firing natural gas.
2. Source Classification Code **(SCC):** 1-01-013-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 3
5. Maximum Annual Rate: 500
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): Items 6,7,8 & 9 do not apply. This activity to be undertaken on a periodic basis in accordance with DARM guidance, and EPA waste rules (40 CFR 279.72).

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Residual oil burned in Unit 6 Boiler
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 10.2
5. Maximum Annual Rate: 89352
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.1
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Residual oil is currently limited to being fired during startup only.

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	NA	NA	EL
CO	NA	NA	NS
PM	076	NA	EL
PM10	NA	NA	NS
VOC	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: Sulfur Dioxide

2. Total Percent Efficiency of Control: %

3. Potential Emissions: 1705 lbs/hr 7467.9 tons/yr

4. Synthetically Limited? (Yes/No): N

5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) :
to tons/yr

6. Emission Factor: 1.1 **Units** lb/mmBtu
Reference: DEP Rule 62-296.405(1)(c)i.

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):
1.1 lb/mmBtu * 1550 mmBtu/hr = 1705 lb/hr

(1705 lb/hr * 8760 hr/yr) / 2000 lb/ton = 7467.9 tons/yr

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):
Dade County Code Section 24-17(2)(c) limits fuel oil firing to startup only and limits emissions to 0.55 lb/mmBtu, but this is not a federally-enforceable limitation..

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: 1.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 1705 lbs/hr 7467.9 tons/yr
5. Method of Compliance: Fuel sampling & analysis
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **127** 0.55 lb/mmBtu is the current non-federally-enforceable limit on sulfur dioxide emissions.[Dade County Code Section 24-17(2)(c)]

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: %
3. Potential Emissions: 310 lbs/hr 1357.8 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.2 **Units** lb/mmBtu Reference: DEP Rule 62-296.570(4)(b)4.
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): 0.2 lb/mmBtu * 1550 mmBtu/hr = 310 lb/hr (310 lb/hr * 8760 hr/yr)/2000 lb/ton = 1357.8 Tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Dade County Code Section 24-17(2)(c) limits fuel oil firing to startup only.

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: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.2 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 310 lbs/hr 1357.8 tons/yr
5. Method of Compliance: Continuous Emission Monitoring
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** 193 0.2 lb/mmBtu is the current reg. limit [Rule 62-296.570(4)(b)4] on NOx emissions [30-day rolling avg - Rule 62-296.570(4)(a)4.]. Equivalent allowable emissions are given for liquid fuel firing.

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: 193.75 lbs/hr 848.6 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.1 **Units** lb/mmBtu Reference: DEP Rule 62-296.405(1)(b) and 62-210.700(3)
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): 0.125 lb/mmBtu * 1550 mmBtu/hr = 193.75 lb/hr (193.75 lb/hr * 8760 hr/yr)/2000 lb/Ton = 848.6 Tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Dade County Code Section 24-17(2)(c) limits fuel oil firing to startup only. Emis. rate of 0.125 lb/mmBtu is a weighted average of 21 hr@ 0.1 plus 3 hr @ 0.3 lb/mmBtu.

Information for Facility_ID: *1* **Emission Unit #:** *2* **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: 0.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 155 lbs/hr 678.9 tons/yr
5. Method of Compliance: DEP Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **190** 0.1 lb/mmBtu = the current regulatory limit for PM.[Rule 62-296.340(1)(e)] Equiv. allow. emis. are for liquid fuel firing. Stack test is only required if fuel oil is fired for > 400 hrs /yr.

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: 0.3 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 465 lbs/hr 254.6 tons/yr
5. Method of Compliance: DEP Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **197** Data for sootblowing / loadchanging [62-210.700(3)]. Equiv. allow. emis. based on 3hr of sootblowing /24hr. Stack test only req'd if fuel oil fired > 400 hr/yr. 1 test run / 3 is while sootblowing.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 60 % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): DEP Rule 62-296.405(1)(a) limits load changing conditions to 60% opacity for up to 3 hrs / 24 hrs, with up to four 6-minute periods of up to 100% if unit has an operational opacity CEM.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Rules 62-210.700(1) and (2), F.A.C. allow up to 100% opacity for an unlimited time during startup and shutdown, and up to 2 hrs/24 hrs for malfunctions.

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: 42-49390-284
5. Installation Date (DD-MON-YYYY): 10/11/94
6. Performance Specification Test Date (DD-MON-YYYY): 05/30/95
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)2.

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: N3L2500T
5. Installation Date (DD-MON-YYYY): 10/11/94
6. Performance Specification Test Date (DD-MON-YYYY): 05/30/95
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 data is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the lack 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: 42-49390-284
5. Installation Date (DD-MON-YYYY): 10/11/94
6. Performance Specification Test Date (DD-MON-YYYY): 05/30/95
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 data is calculated using 40 CFR 75 Appendix G, eqn G-4, due to the lack of a flow monitor.

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) : 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	lbs/hr	tons/yr
SO2	lbs/hr	tons/yr
NO2	tons/yr	

5. PSD Comment (limit to 200 characters):
Cutler Unit 6 was constructed in 1955 which pre-dates the major source PSD baseline date of 1/5/75.

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 : PCUU2_1.bmp ✓ Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PCUU1_2.txt OK 1 INCLUDED W/EU 5 Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PCUU1_3.txt OK 2 INCLUDED W/EU 5 Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PCUU2_4.txt OK ✓ MISLABELED 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 : PCUU1_6.txt OK 1 INCLUDED W/EU 5 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 : PCUU2_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 : PCUU2_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

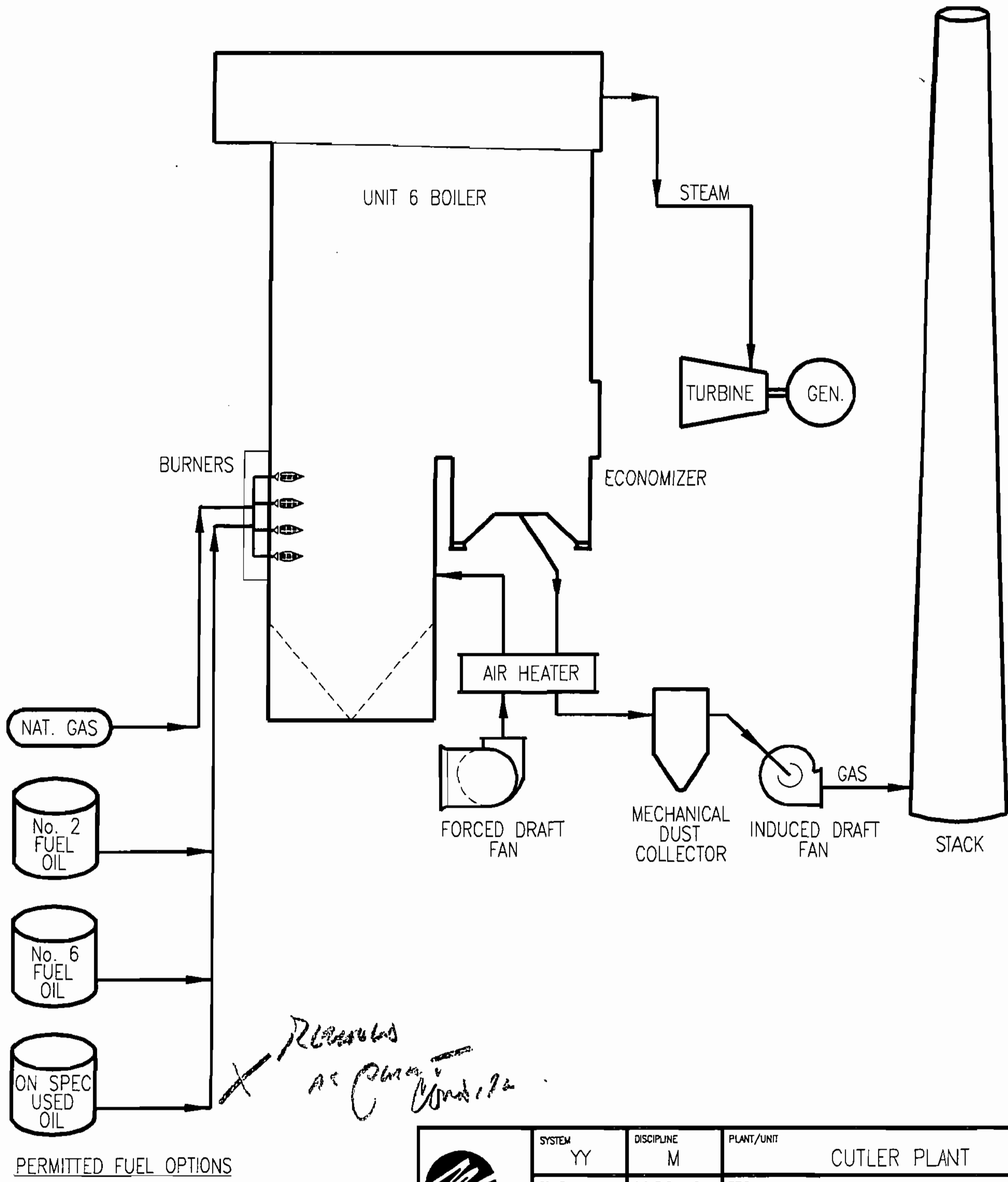
Not Applicable

ATTACHMENT: PCUEU2_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG	BY	DATE

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG	BY	DATE

BAR CODE



PERMITTED FUEL OPTIONS

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
0	6/6/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL	SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: CUTLER PLANT
	SCALE: N/A	CAD FILE NAME: CU000699	TITLE: EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU2
	DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CU000699	
DRAWING NUMBER: PCU5-M0103-YY		SHEET: 1 OF 1	REV: 0

FPCSYM/FPCBDR-A 9/90

PCUU2_1.BMP

FLORIDA POWER & LIGHT CO.
STACK SAMPLING FACILITIES
CUTLER

FOSSIL FUEL STEAM GENERATORS
UNIT 6

STACK SPECIFICATIONS

SAMPLING DIAMETER: 168 in.

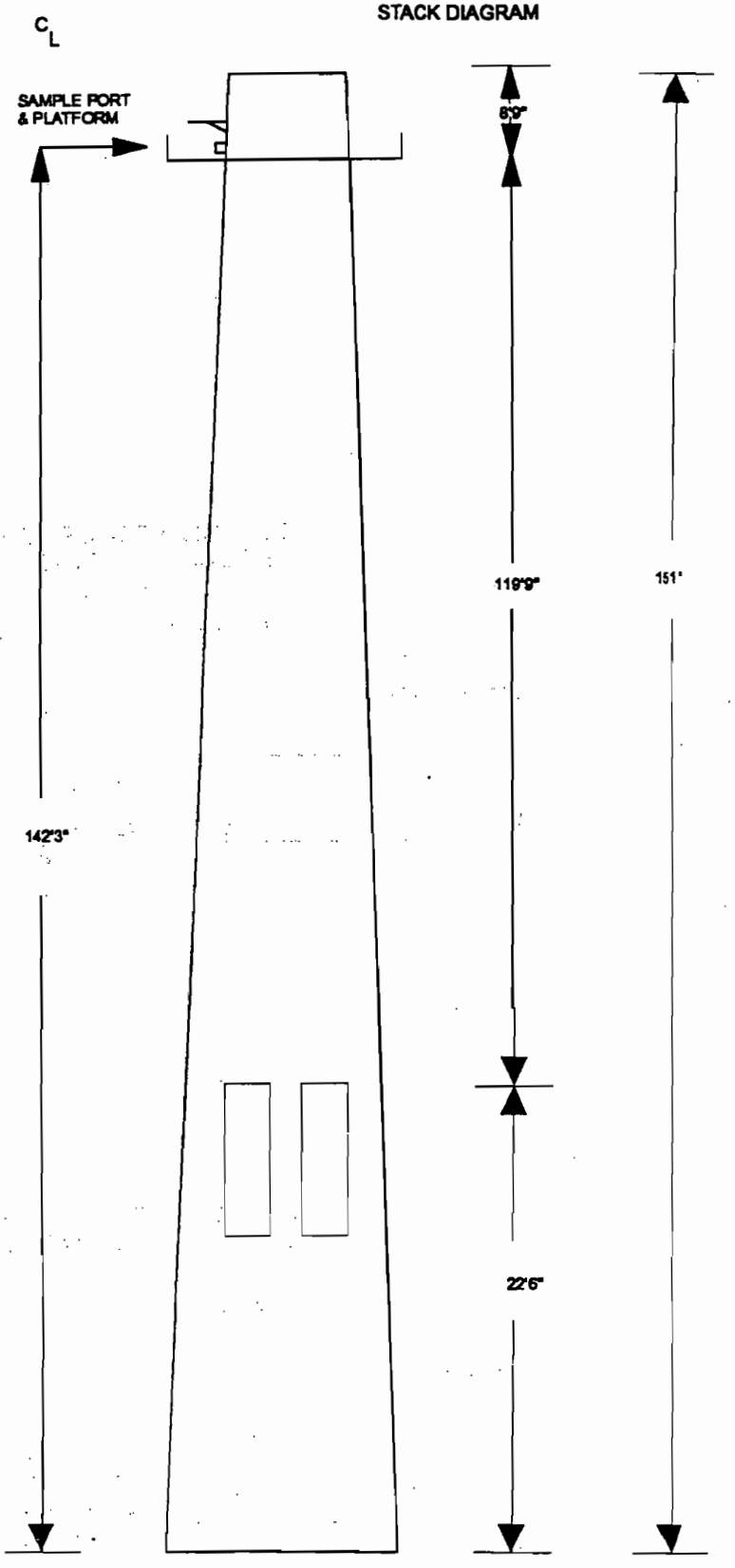
SAMPLING AREA: 153.9 sq. ft.

SAMPLING PORT DEPTH: 22.0 in.

No. OF PORTS: 1

NOTE: DRAWING IS NOT TO SCALE

STACK DIAGRAM



Access to the sampling ports is provided by a ladder. Channel iron with a trolley system is above the port for probe support. AC power is available on the platform and at the base of the stack.

FILE: PCU6TTLV.PRE
08/18/95

Attachment PCUU2_10.txt
Alternative Methods of Operation

Operation at Various Capacities and Heat Input Rates
The Cutler Unit 6 boiler may be operated up to 8760 hours per year at heat input rates from zero to 290 MMBtu per hour on No.#6 oil, and from zero to 1620 MMBtu per hour on natural gas. When a blend of fuel oil and natural gas are burned, the heat input is prorated based upon the percent heat input of each fuel.

Different Fuel Types
The unit may be fired with a variable combination of No. 6 residual fuel oil, natural gas, or No. 2 fuel oil.

Current emissions limitations are as follows:

Pollutant	Emission Limit
Particulate matter : steady-state	0.1 lb/MMBtu
Particulate matter : sootblowing	0.3 lb/MMBtu
Sulfur dioxide	0.55 lb/MMBtu
Nitrogen oxides	0.2 lb/MMBtu (30-day rolling average)

Soot blowing
The unit may blow soot for up to 24 hours per day, so long as excess emissions are limited to 60% opacity for 3 hours in 24 hours with four 6-minute periods of up to 100% opacity.

Utilization of Additives
Additives such as Magnesium hydroxide $Mg(OH)_2$ are added to the boiler periodically at various loads. When magnesium hydroxide is used, it is injected into the boiler via the I.K. soot blower lances and through manual hand lances on a batch basis, rather than continuously. The dosage rate is based on the quantity of fuel burned and the amount of ash in the fuel. FPL reserves the right to use other additives if they are suitable.

Off-Stoichiometric Combustion
This technique involves operating selected burners at fuel-rich mixture ratios. The proportion of fuel burned at peak temperatures in the presence of excess air is reduced and results in reduced NOx emissions. At Cutler, the method for performing off-stoichiometric combustion is to terminate the fuel flow to selected burners and utilize these burners as excess air ports. The other burners are then operated at a fuel-rich mixture ratio. This is also known as a bias-firing scheme.

Attachment PCUU2_10.txt
Alternative Methods of Operation

Evaporation of Spent Boiler Chemical Cleaning Chemicals

On a periodic basis, as part of routine maintenance, the inside of the steam generator tubes (boiler tubes) at Cutler Unit 6 are cleaned using a series of chemical solutions that remove deposited scale which adversely affects the efficiency and reliability of the generating units.

The solutions and rinsewaters are collected in large mobile tanks ("frac tanks") pursuant to guidance issued by the Department. Upon completion of the cleaning process and prior to disposal of the spent cleaning solution and rinses, representative sampling of the liquids collected in the "frac tanks" is conducted as per 40 CFR 261, Appendix I, to determine the hazardous waste status of the accumulated wastewater, using Toxicity Characteristic Leaching Procedure (TCLP) analysis.

If the wastewater is determined to be hazardous, it will be managed as such in accordance with 40 CFR 262.34, 40 CFR 265 Subpart I, and 40 CFR 268 with respect to generators accumulating and treating waste in containers and tanks. An appropriate waste analysis plan will be developed to determine and document the pre- and post-treatment characteristics of the wastewater. Hazardous waste may also be transported to an approved hazardous waste facility for the appropriate disposal.

If the spent cleaning solution and rises are determined to be non-hazardous, they are then disposal by evaporation in the units boiler. Introduction into the boiler will occur at a rate that will not cause an exceedence of the opacity limit of the unit in which evaporation is occurring (in this case, 40 percent opacity).

Attachment PCUU2_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).

NOx RACT (A013-173753) - Three items were identified as action to be undertaken by FPL in order to satisfy RACT requirements:

1. The boiler fuel firing rate shall not exceed 290 mmBtu/hr during fuel oil firing (start up) or 1,620 mmBtu/hr during gas firing. Each boiler can operate continuously (8760 hours per year).*FPL uses fuel sampling and analysis to monitor the heat input rate to the boiler.*

2. NOx emissions from the boiler stack shall not exceed the following limits 0.2 lbs/mmBtu or 324 lbs/hr on an average of 30 days.These limit shall apply at all times expect during periods of startup, shutdown, or malfunction as provided by F.A.C rule 17-210.700. *FPL has a continuous emission monitor (CEM) to comply with this condition.*

3. Installation of a continous monitoring system for NOx emission.*This system has been installed.*

A013-173753 Permit contains the following conditions:

1. During start-up the boiler shall be fired either with no.6 residual oil with 0.5 percent maximum sulfur content or no.2 fuel oil with 0.5 percent sulfur content or 100 percent natural gas.*FPL fires the fuels as specified, and maintains records to demonstrate this.*

2. Operation other than start-up - 100 percent natural gas shall be fired. *FPL maintains records to demonstrate this.*

4.The maximum allowable emissions from each boiler shall not exceed the following emission limitations.

MAXIMUM ALLOWABLE EMISSION LIMITS

Pollutant	Fuel	lb/mmBtu	Test Method
Pariculate Matter Steady state	Oil	0.1	EPA Method 5 or 17
SO2	Oil	0.55	Monthly fuel analysis

For compliance with each of these emission limits, FPL uses annual stack tests, and the monthly fuel analysis as specified. Records are maintained to demonstrate compliance.

3. To determine compliance with the oil firing heat input limitation, the Permittee shall maintain daily records of fuel consumption for each boiler 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.

4. 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, but if changes are contemplated, will notify the department as specified.*

III. EMISSIONS UNIT INFORMATION

Information for Facility - ID : *1* 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:

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

[X] 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): Unregulated Emission Units
2. Emissions Unit Identification Number: Unk (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): This emission unit include a trailer-mounted emergency diesel generator, and all other miscellaneous emission units not otherwise regulated at the facility. A list of additional equipment included in this emission unit section may be found in Attachment PCU-FW.

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):

2. Long-term Reserve Shutdown Date (DD-MON-YYYY):

3. Package Unit:
   Manufacturer: Detroit Diesel Model Number: 16V-71N

4. Generator Nameplate Rating: 0.5 MW

5. Incinerator Information:
   Dwell Temperature: °F
   Dwell Time: seconds
   Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 4.62 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):
   Information provided is for the diesel generator, which will be limited to 400 hour/yr of operation. Other equipment may operate up to 8760 hr/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

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

Emissions Unit ID 3

F.A.C. 62-210.300(3)(a)20.	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. 62-296.310(2)(a)

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: 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 the switchyard at Cutler Plant.

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): 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: 13.65
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):

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
NOx	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: Nitrogen Oxides
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 15.88 lbs/hr 3.41 tons/yr
4. Synthetically Limited? (Yes/No): N
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 15.88 **Units** lb/hour Reference: Detroit Diesel
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 1 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
8. Calculation of Emissions (limit to 600 characters): 15.88lb/hour x 400 hours/year * (1 ton/ 2000 lb) = 3.41 TPY
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): This EU is typically operated only when needed to supply emergency power to the facility. Emission estimates are based on 400 hrs/yr. The emissions information was provided by the mfg, Detroit Diesel.

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:
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)**:** This emission unit does not currently have an emission limitation for NOx.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *3*
Visible Emissions Limitation #: *1*

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] 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):

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *3*
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 # : *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) : 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	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 # : *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: PFLU3_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 : PFLU3_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 Previously Submitted.

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

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

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 the with 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..

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

UNIT 5 & 6 BOILER/STEAM GENERATOR POWER BLOCK

Steam Systems
Steam Drum Maintenance Valves - 2"

Steam Drum Relief Valves

Super Heater Outlet Relief Valves

H.P. Heaters Maintenance Vents

I.P. Heater Maintenance Vent

L.P. Heaters Maintenance Vents

Blowdown Tank Vent with Silencer

Hogging Ejector Exhaust Head with Silencer

Steam Jet Air Ejector Vents

Throttle Valves Vents

Natural Gas
Metering Area Relief Valves

Boiler Feed, Condensate & Heater Drain Systems
Boiler Feed at Heaters - Maintenance Vent

Phosphate Tank (50 Gal)

Hydrazine mixing tank

Ammonia mixing tank

Condensate Storage Tank Vent

Vent Condenser Maintenance Vent

Condensate Collection Tanks 4" - Vents

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

UNIT 5 & 6 BOILER/STEAM GENERATOR POWER BLOCK

Cooling Water
Heat Exchangers Maintenance Vents

Miscellaneous Water Lines - Maintenance Vents

Instrument/Service Air
Miscellaneous Relief Valves

Lube Oil System
Turbine Lube Oil Vapor Extractor Vents

Lube Oil Dump Tank Vent

GENERAL SITE

Basin
Evaporation/Percolation Pond

Solids Settling Basin

Neutralization Basin

Oil Separation Basin

Water Treatment
100,000 Gal. Elevated Water Storage Tank

200,000 Gal. Raw Water Storage Tank

Acid Storage Tank

Caustic Storage Tank

Chemical Storage Area

Bulk Gas Storage

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

Hydrogen

Nitrogen

Carbon Dioxide

Filling Stations
Portable Unleaded Gasoline Tank - 2" Vent

Portable Diesel Fuel Tank - 2" Vent

C.E.M. Building
Monitoring Gases

GENERAL SITE

Sanitary Vent/Stacks
Recreation Pavilion

Service Building

Control Room

Unit 6 Bathroom

Miscellaneous Buildings H.V.A.C. (Cooling/Heating)
Service Building

Office Building

Control Room

Lunch Room

Lab/Results Bldg.

Exciter House

C.E.M. Building

Miscellaneous Buildings H.V.A.C. (Cooling/Heating) (continued)

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

Substation Control Building

Control Building

Relay Room

Miscellaneous Buildings Vent/Exhaust Systems
Service Building

Storage Shed

Control Room

Lab Building

Paint/Lube Oil Bldg

Battery Room Bldg

Hazardous Waste Bldg

Control Building

Battery Room

GENERAL SITE

Miscellaneous Activities
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

Painting of Plant Equipment

Plant Grounds Maintenance

Routine Maintenance/Repair Activities

Miscellaneous Activities (continued)

CUTLER PLANT
LIST OF UNREGULATED TRIVIAL & DE MINIMIS ACTIVITIES

Miscellaneous Activities (continued)
Non-Halogenated Solvent Cleaning Operations

Use of spray cans & solvents for routine maintenance activities

Bead Blasting Equipment

Internal Combustion Engines Which Drive compressors, Generators, Water Pumps or other Auxiliary Equipment

Miscellaneous Mobile Vehicle OperationCars, Light Trucks, Heavy Duty Trucks, Back Hoes, Tractors, Forklifts, Cranes, Etc.

Miscellaneous Mobile Equipment OperationCompressors, Chain Saws, Small Generators, (< 100kw) Welding Machines, Electric Saws & Drills, Etc.

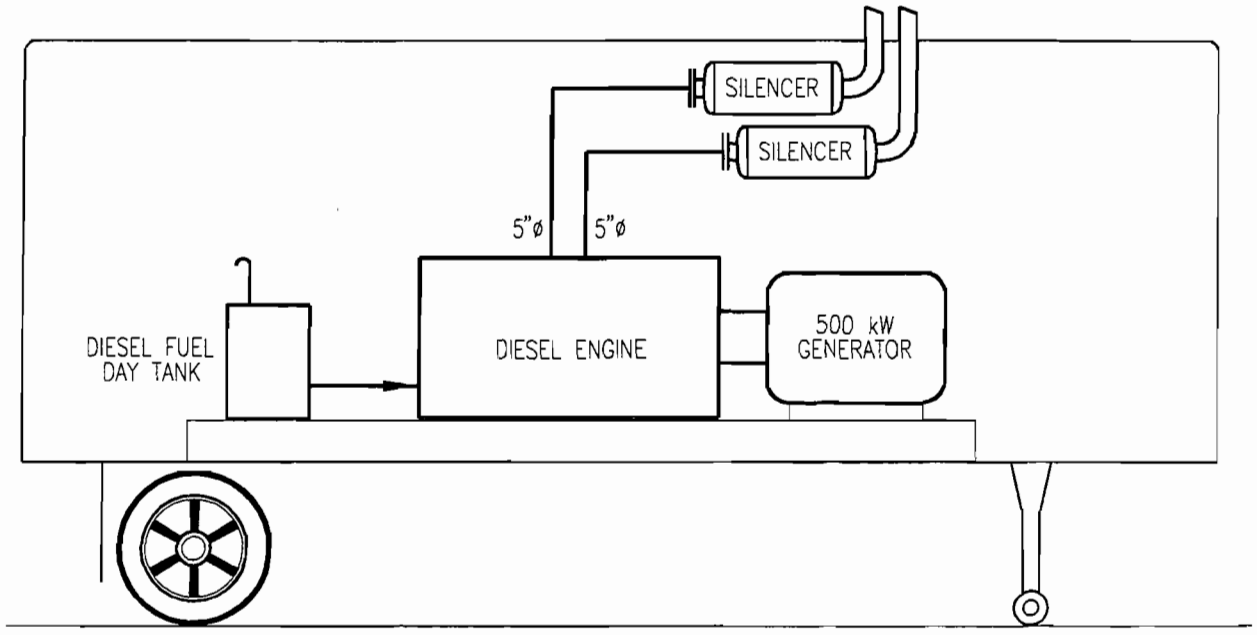
Emergency Diesel Generators
2 ea, 500 kW mobile diesel generators, 4.6 mmBtu/hr

ATTACHMENT: PCUEU3_1.bmp

TECHNICAL ACCEPTANCE
ENGINEERING ORGANIZATION | ORG | BY | DATE

WALKDOWN INFORMATION
AS-BUILT INFORMATION | ORG | BY | DATE

BAR CODE



MOBILE DIESEL GENERATOR

REV	DATE	REVISION DESCRIPTION	PWB BY	PWB CH	CSP COR	CSP APR	ETS ORG
0	7-14/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	CUTLER PLANT
SCALE: N/A	CAD FILE NAME: C0000700	TITLE: EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU3
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CU000700	

DRAWING NUMBER: PCU5-M0104-YY

SHEET: 1 OF 1 | REV: 0

FPCSYM/FPCBDR-A 9/90

Attachment PCUU3_2.txt

Fuel Analysis

Light Distillate oil (typical)*

Parameter	Typical value	Max value
API gravity @ 60 F	41.2 [1]	51 [1]
Relative density	285 lb / bbl [2]	not applicable
Heat content	19,130 Btu / lb	not applicable
% sulfur	0.5	not applicable
% nitrogen	9 mg / kg	not applicable
% ash	negligible	0.001 [1]

*Note: The values listed are "typical" values based upon:

1) information FPL gathered by laboratory analysis, and

2) FPL's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

Footnotes:

1 Data taken from the FPL fuel purchasing specification

2 Data from laboratory analysis

Attachment PCUU3_6.txt

Procedures for Startup / Shutdown

The emergency diesel generator is the main backup power supply component for the fossil steam boiler generating units. 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 to ensure that it will function properly when needed in an emergency.

Startup for the emergency diesel generator begins with actuating a switch which sends an electric signal to a starter 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 engine on the generating unit, and monitoring the visible emissions from the emergency diesel generator to ensure that the opacity limitation is not exceeded. All efforts to minimize both the level and duration of excess emissions are undertaken.