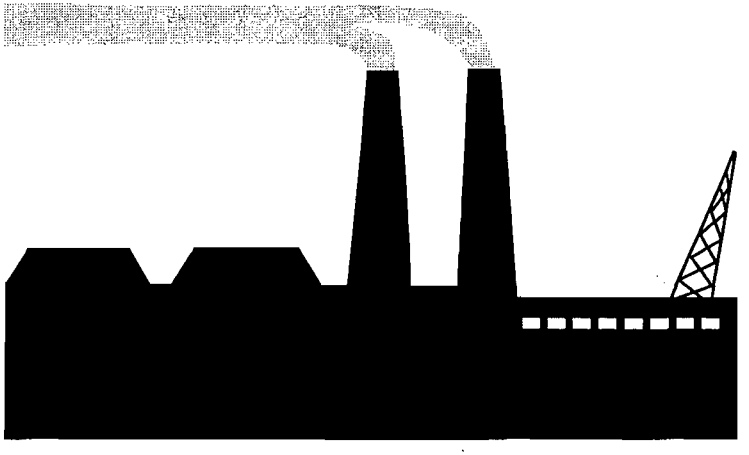
TITLE V PERMIT APPLICATION

Cape Canaveral Plant



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Cape Canaveral Plant Title V Application

APPLICATION INFO

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: Cape Canaveral Plant
3. Facility Identification Number : Unknown
4. Facility Location Information: Facility Street Address: 6000 N. U.S. Highway One City: Cocoa County: Brevard Zip Code: 32927-6002
5. Relocatable Facility? (Y/N): N 6. Existing Permitted Facility?(Y/N): Y

Application Processing Information (DEP Use)

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

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Name: John Franklin
   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: 4076330221 Fax: 4076330232

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.*

John Franklin 5-13-96

Signature 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	Fossil Fuel Steam Generator, Unit 1 (ARMS ID # 30ORL05000601)	
02	Fossil Fuel Steam Generator, Unit 2 (ARMS ID # 30ORL05000602)	
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 & Applied 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 [signature] Date 6/5/96

(seal)

3* 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 Cape Canaveral Power Plant, which is located on the west side of the Indian River approximately eight miles north of Cocoa, Florida on U.S. Highway No. 1.

The plant consists of two conventional steam electric generating stations, designated as Units 1 and 2, four residual fuel oil storage tanks, one distillate fuel oil storage tank, and a 500 kilowatt diesel engine generator.

Each steam generator is a Foster Wheeler reheat type outdoor unit with a water cooled pressurized furnace which drives a General Electric tandem compound, condensing single reheat type General Electric turbine directly connected to generator with a hydrogen cooled rotor and oil cooled stator. The units each have a gross generating capacity of 402 MW, based on information supplied by FPL to the PSC in the 10-year Site Plan. Note that actual generating capacity may vary, depending upon increases in plant efficiency or other factors.

402.1 MW
OK

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Information for Facility-Id : *1*

Facility Location and Type

1. Facility UTM Coordinates:
   Zone: 17 East: 523077 North: 3149038

2. Facility Latitude/Longitude:
   Latitude (DD/MM/SS): 28 - 28 - 10 Longitude (DD/MM/SS): 80 - 45 - 51

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)
   This application is for the FPL Cape Canaveral Power Plant, which is located on the west side of the Indian River approximately eight miles north of Cocoa, Florida on U.S. Highway No. 1.

The plant consists of two conventional steam electric generating stations, designated as Units 1 and 2, four residual fuel oil storage tanks, one distillate fuel oil storage tank, and a 500 kilowatt diesel engine generator.

Facility Contact

1. Name and Title of Facility Contact:
   Name : Bruce Bennett
   Title : Environmental Specialist

2. Facility Contact Mailing Address:
   Organization/Firm: FPL Cape Canaveral Plant
   Street Address: 6000 N. US 1
   City: Cocoa State: FL Zip Code: 32927 - 6002

3. Facility Contact Telephone Numbers:
   Telephone: 4076330253 Fax: 4076330232

Facility Regulatory Classifications

1. Small Business Stationary Source? (Yes/No/Unknown)(Y/N/U) : N
2. Title V Source? (Yes/No) (Y/N) : Y
3. Synthetic Non-Title V Source? (Yes/No) (Y/N) : N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? (Yes/No) (Y/N) : Y ✓
5. Synthetic Minor Source of Pollutants Other than HAPs? (Yes/No) (Y/N) : N
6. Major Source of HAPs? (Yes/No/Possible) (Y/N/P) : Y ✓
7. Synthetic Minor Source of HAPs? (Yes/No) (Y/N) : N
8. One or More Emissions Units Subject to NSPS? (Yes/No) (Y/N) : 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 — ASBESTOS 40 CFR 61.148 40 CFR 61.150 40 CFR 61.19 — CIRCUMVENTION 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
H133	A
SAM	A
HCL	A
H107	A
HAPS	A

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications For Facility :*1*

1. Area Map Showing Facility Location: PCCFS_1.bmp ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
2. Facility Plot Plan: PCCFS_2.bmp ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
3. Process Flow Diagram(s): PCCFS_3.bmp ✓ **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)**
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: PCCFS_4.txt **(Enter the Attached Document ID, NA - Not Applicable or WaiverRequested)** ✓
5. Fugitive Emissions Identification : PCCFS_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: PCCFS_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: PCCFS_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: PCCFS_11.txt ? MISSING **(Enter the Attached Document ID, NA - Not Applicable)**
12. Compliance Assurance Monitoring Plan: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**

13. Risk Management Plan Verification: Plan to be Submitted to Implementing Agency by Required Date

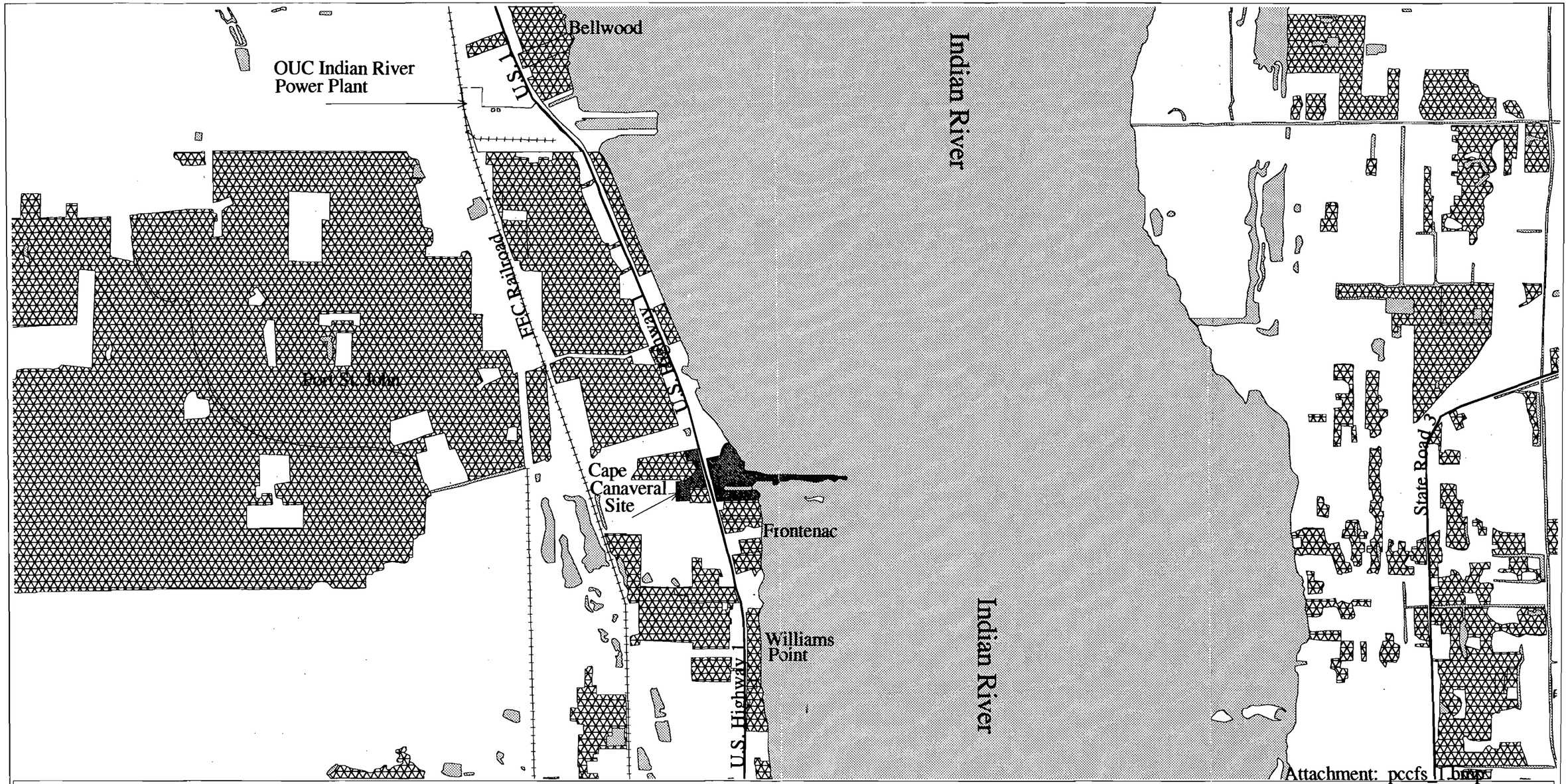
Plan Submitted to Implementing Agency - Verification Attached(Attached Document ID)

Plan to be Submitted to Implementing Agency by Required Date

Not Applicable (NA)

14. Compliance Report and Plan: PCCFS_13.txt ✓
(Enter the Attached Document ID, NA - Not Applicable)

15. Compliance Statement (Hard-copy Required): PCCFS_14.txt ✓
(Enter the Attached Document ID, NA - Not Applicable)



Cape Canaveral Plant Area Map
Brevard County

Source: Landuse data provided by Saint Johns River Water Mgmt District (1993)

No expressed or implied warranties including, but not limited to the implied warranties of MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE are made. The materials contained herein are provided 'as is' and may contain inaccuracies and user is warned to utilize the material's accuracy independently and assumes the risk of any and all loss.

Environmental
FPL Affairs

0km 1km 2km
0mi 1mi

N W E S

- Cape Canaveral Plant Site
- Water
- Residential Areas
- Major Roads
- Railroads

/export/home/ron/maps/pcc-site.map (8-95)

Best Available Copy

ATTACHMENT: PCCFS_2.bmp

REV	DATE	REVISION DESCRIPTION	PWB BY	PWB CH	CSP COR	CSP APR	ETS ORG
0	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: CAPE CANAVERAL PLANT-UNIT 1 & 2
SCALE: 1=100	CAD FILE NAME: CC001899	TITLE: FACILITY PLOT PLAN ATTACHMENT FS-2 TITLLE V
DRAWING SIZE: E(30"X42")	FPL ARCHIVE NAME: CC001899	
DRAWING NUMBER: PCC1-M0001-YY	SHEET: 1 OF 1	REV: 0

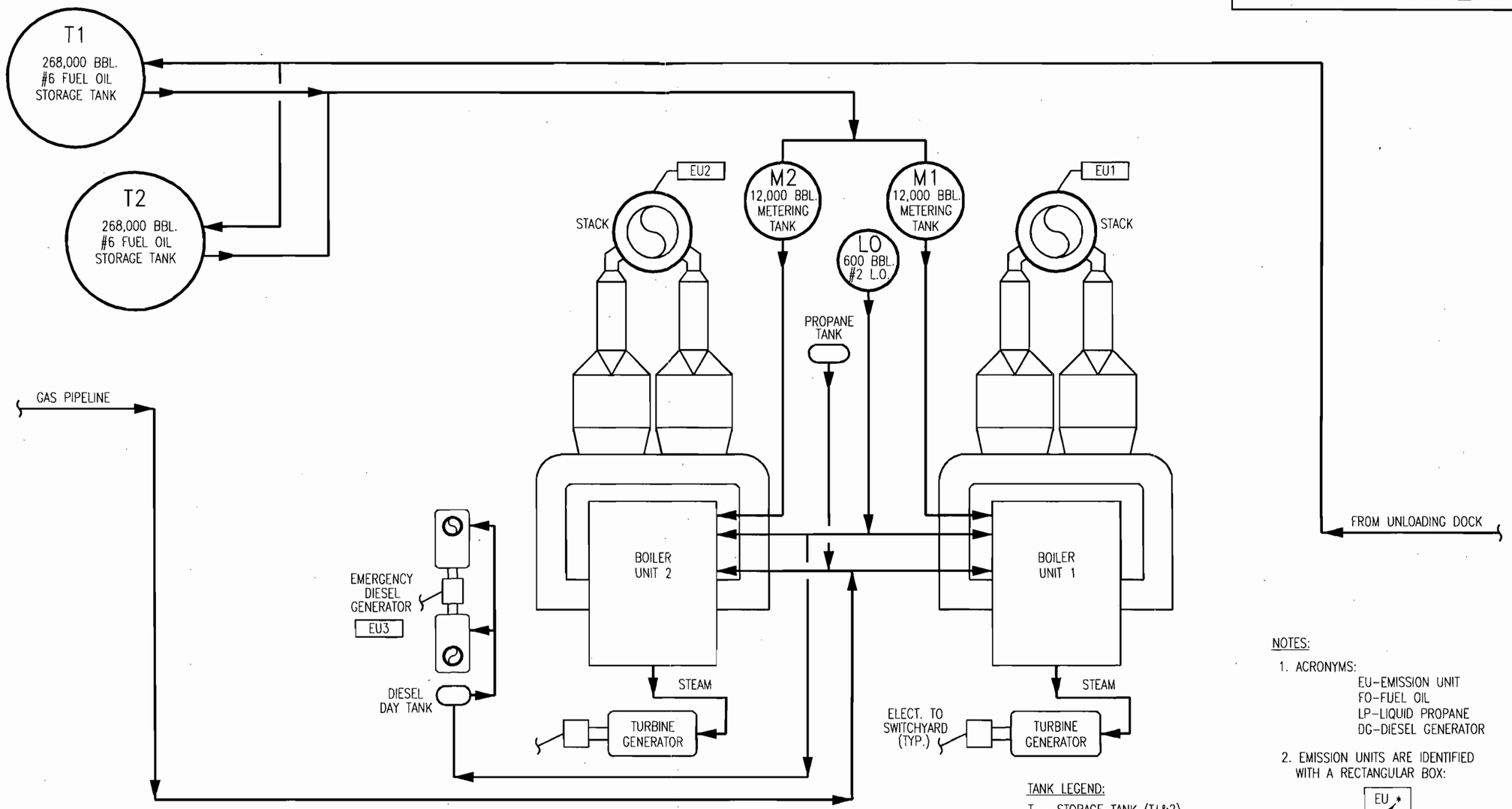
ATTACHMENT: PCCFS_3.bmp

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 1 & 2

TANK LEGEND:

T – STORAGE TANK (T1&2)
M – METERING TANK (M1&2)
LO – LIGHT OIL TANK

NOTES:

1. ACRONYMS:
   EU–EMISSION UNIT
   FO–FUEL OIL
   LP–LIQUID PROPANE
   DG–DIESEL GENERATOR
2. 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	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM: N/A	DISCIPLINE: M	PLANT/UNIT: CAPE CANAVERAL PLANT–UNIT 1&2	BAR CODE
SCALE: N/A	CAD FILE NAME: CC001900	TITLE: FACILITY SOURCE FLOW DIAGRAM ATTACHMENT FS–3 TITLE V	
DRAWING SIZE: B(11"X17")	FPL ARCHIVE NAME: CC001900		
DRAWING NUMBER: PCC1–M0102–YY		SHEET: 1 OF 1	REV: 0

GSYM/FPGBDR–B 5/93

Attachment PCCFS_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 (including vacuum blasting)
- fugitive particulates from the use of bagged chemical products (soda ash, di-, tri- and monosodium phosphate, and other chemicals as needed)

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

- Paving of roads, parking areas and equipment yards

- Landscaping and planting of vegetation

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

- Use of thick poly flaps over the doorways to prevent any sandblasting material from leaving the sandblast facility. The facility also constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment.

- Maintenance of paved areas as needed

- Regular mowing of grass and care of vegetation

- Limiting access to plant property by unnecessary vehicles.

- Bagged chemical products are stored in weather-tight buildings until they are used. Spills of powdered chemical products are cleaned up as soon as practicable.

- Vehicles are restricted to slow speeds on the plant site

Attachment PCCFS_5.txt
Fugitive Emission Identification

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PCCFS_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 PCCFS_8.txt

EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI

The Cape Canaveral facility currently has no equipment with CFC's greater than 50 pounds. Air conditioning units associated with boiler units 1 and 2 are water cooled and the rest have CFC's less than 50 pounds.

Attachment PCCFS_9.txt
Alternative Methods of Operation

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

Attachment PCCFS_13.txt
Cape Canaveral Plant
Compliance Report and Plan

ok Facility level ok Emissions Unit level

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 PCCFS_14.txt
Cape Canaveral 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.

John Frankel
Signature, Responsible Official

5-13-96
Date

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

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

 Unit 1 Boiler

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 1 Steam Generator
2. Emissions Unit Identification Number: 001 (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 FPL 10-year Site Plan, which is provided 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 measurement.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): Multiple Cyclone w/Fly Ash Reinjection
2. Control Device or Method Code: Multiple Cyclone w/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

1. Initial Startup Date (DD-MON-YYYY): 04/13/65
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Foster-Wheeler Model Number: NA
4. Generator Nameplate Rating: 430 MW 402.1 AGE 31 IN 1996
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 4180 mmBtu/hr ✓ ok
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): ok The heat input number given above is reflective of natural gas firing. The maximum heat input rate for residual oil firing is 4,000 mmBtu/hour. ✓

Emissions Unit Operating Schedule

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

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 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. — SO_2 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 # :***1*

1. Identification of Point on Plot Plan or Flow Diagram: Unit 1 boiler
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): The EU-1 emission unit (Unit 1 Boiler) has one emission point which is the stack.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Emission Unit 1, Cape Canaveral Unit 1 Boiler
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 397 ft ✓ ok
7. Exit Diameter: 18.7 ft
8. Exit Temperature: 287 °F
9. Actual Volumetric Flow Rate: 1212005 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: 522.9 North: 3148.9
14. Emission Point Comment (limit to 200 characters): Item #9 above reflects the highest rate measured during April 1995 particulate test. Actual flow rates may vary. The temp. in item 8 may vary due to condition of air heaters, fuel type, load, etc..

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

Segment Description and Rate: NATURAL GAS

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): Unit 1 Boiler burning natural gas fuel
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 3.98
5. Maximum Annual Rate: 34873.14
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): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

OK

4180 / 1050 = 3.98

1100 BTU / FT³

OK

4180 MM BTU / HR.

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

Segment Description and Rate:
Information for Facility_ID :*1* Emission Unit #: *1* Segment #: *2*

No 6 Residual Oil

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 1 Boiler burning No. 6 residual oil
2. Source Classification Code **(SCC):** 1-01-004-01
3. SCC Units: thousand gallons burned 4 x 10^9
4. Maximum Hourly Rate: 26.3 x 10^3 Gal. 4000 mm BTU / MB / 152,000 BTU / Gal = 26.3 ok
5. Maximum Annual Rate: 232140
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash: 0.1
9. Million Btu per SCC Unit: 152 ok 152,000 BTU / Gal
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

ok

8.33 lb / Gal

152,000 BTU / Gal

4,000 mm BTU / hr Limit

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

Segment Description and Rate: No. 2 Diesel

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): Unit 1Boiler burning No.2 diesel fuel oil
2. Source Classification Code **(SCC):** 1-01-005-01
3. SCC Units: Thousand gallons burned
4. Maximum Hourly Rate: 29.41
5. Maximum Annual Rate: 257647.06
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136 ✓ OK
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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

Segment Description and Rate:

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

Propane

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 1 Boiler burning propane
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 4.18 ok
5. Maximum Annual Rate: 36616.8
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1000 ✓
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 1 Boiler burning on-specification used oil
2. Source Classification Code **(SCC):** 1-01-013-02
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 29.42 29.41 o/k
5. Maximum Annual Rate: 2413.53 2,413,530.
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

7

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

SCC 4005-217521
SC#11
BURNERS TO COMBUST 7

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *1* Segment #: *7*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 1 Boiler chemical cleaning waste evaporation. This process may be undertaken while firing natural gas or #6 residual oil.
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).

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
CO	NA	NA	NS
H107	NA	NA	NS
H133	NA	NA	NS
HCL	NA	NA	NS
NOX	NA	NA	NS
PB	NA	NA	NS
PM	076	NA	EL
PM10	NA	NA	NS
SAM	NA	NA	NS
SO2	NA	NA	EL
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 #:

Pollutant Detail Information

1. Pollutant Emitted: Sulfur Dioxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 11000 lbs/hr 48180 tons/yr
4. Synthetically Limited? (Yes/No): No
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 2.75 **Units** lb / mmBtu Reference: DEP Rule 62-296.405(1)(c)1.j. ✓
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
8. Calculation of Emissions (limit to 600 characters): 2.75 lb/mmBtu x 4000 mmBtu / hour = 11000 lb / hour ✓ (11000 lb / hour x 8760 hours / year)/2000 lb / ton = 48180 tons per year ✓ OK
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Note: assumed heat input rate from #6 residual oil for calculation.

Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code:
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :

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: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 2.75 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 11000 lbs/hr 48180 tons/yr
5. Method of Compliance: Fuel sampling & analysis
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **157** 2.75 lb/mmBtu is the current regulatory limit on SO2 emissions [62-296.405(1)(c)1.j. F.A.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 #:** *4*

PM

Pollutant Detail Information

1. Pollutant Emitted: Particulate Matter - Total
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 500 lbs/hr 2190 tons/yr
4. Synthetically Limited? (Yes/No): No
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.125 **Units** lb/mmBtu AVERAGE Reference: Rules 62-296.405(1)(b) and 62-210.700(3)
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
8. Calculation of Emissions (limit to 600 characters): 0.125 lb/mmBtu x 4000 mmBtu/hr = 500 lb/hr 500 lb/hrs x 8760 hr/yr x ton/2000lb = 2190 tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): The PM emission factor in #8 of 3hrs/24hrs at 0.3lb/mmBtu and 21hrs/24hrs at 0.1lb/mmBtu = avg. 0.125 lb/mmBtu. [3 x .3] + [21 x .1] = .9 + 2.1 = 3

Allowable Emissions (Pollutant identified on front page) 3/24 = .125

A.

1. Basis for Allowable Emissions Code:
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :

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: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 400 lbs/hr 1533 tons/yr
5. Method of Compliance: Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **198** 0.1 lb/mmBtu = steady-state reg. limit for PM. Equiv. allowable emissions are for liquid fuel. Stack test is only required if fuel oil is fired>400 hours during the calendar year [62-296.340(1)(e)].

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

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.3 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 1200 lbs/hr 657 tons/yr
5. Method of Compliance: 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 #: *1*
Visible Emissions Limitation #: *1*

1. Visible Emissions Subtype: VE40
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: ✓ Normal Conditions: 40 % Exceptional Conditions: % ok 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) and (1)(e)1., F.A.C. Visible Emissions limited to 40% opacity, except for allowed excess emissions. Compliance testing is performed annually using EPA Method 9.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE60
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 60 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 24 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): OK Rule 62-210.700(3), F.A.C. limits soot blowing & load changing to 60% opacity for up to 3 hrs/24 hrs, with < 4, 6-minute pds of up to 100% opac. if unit has an operational CEM.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % 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): Sulfur Dioxide
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: TECO Model Number: 43B Serial Number: 43B-47710-279
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/30/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(1)

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): Nitrogen Oxides
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: TECO Model Number: 42 Serial Number: 42-47789-279
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/30/94
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 #: *3*

Continuous Monitoring System

1. Parameter Code: D 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: N3L2470T
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/30/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(3)(i)

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

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

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s): Volumetric flow rate
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: Air Monitor Model Number: MASSTRON Serial Number: 6261D
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/30/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(1)

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *1*
Continuous Monitor #: *5*

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s): Visible emissions (opacity)
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: Lear Siegler Model Number: RM41 Serial Number: 943
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 01/12/95
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(4)

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):
This emission unit began operation on 04/13/65 which pre-dates the major source PSD baseline date of 1/5/75. FPL believes PSD does not apply to this emission unit.

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 : PCCU1_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PCCU1_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PCCU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PCCU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Previously submitted date: Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PCCU1_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 : PCCU1_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 : Not Applicable
Attached Document ID / Not Applicable

13. Enhanced Monitoring Plan : Not Applicable
Attached Document ID / Not Applicable

14. Acid Rain Permit Application

Acid Rain Application - Phase II (Form No. 17-210.900(1)(a))
Attached Document ID: Not Applicable

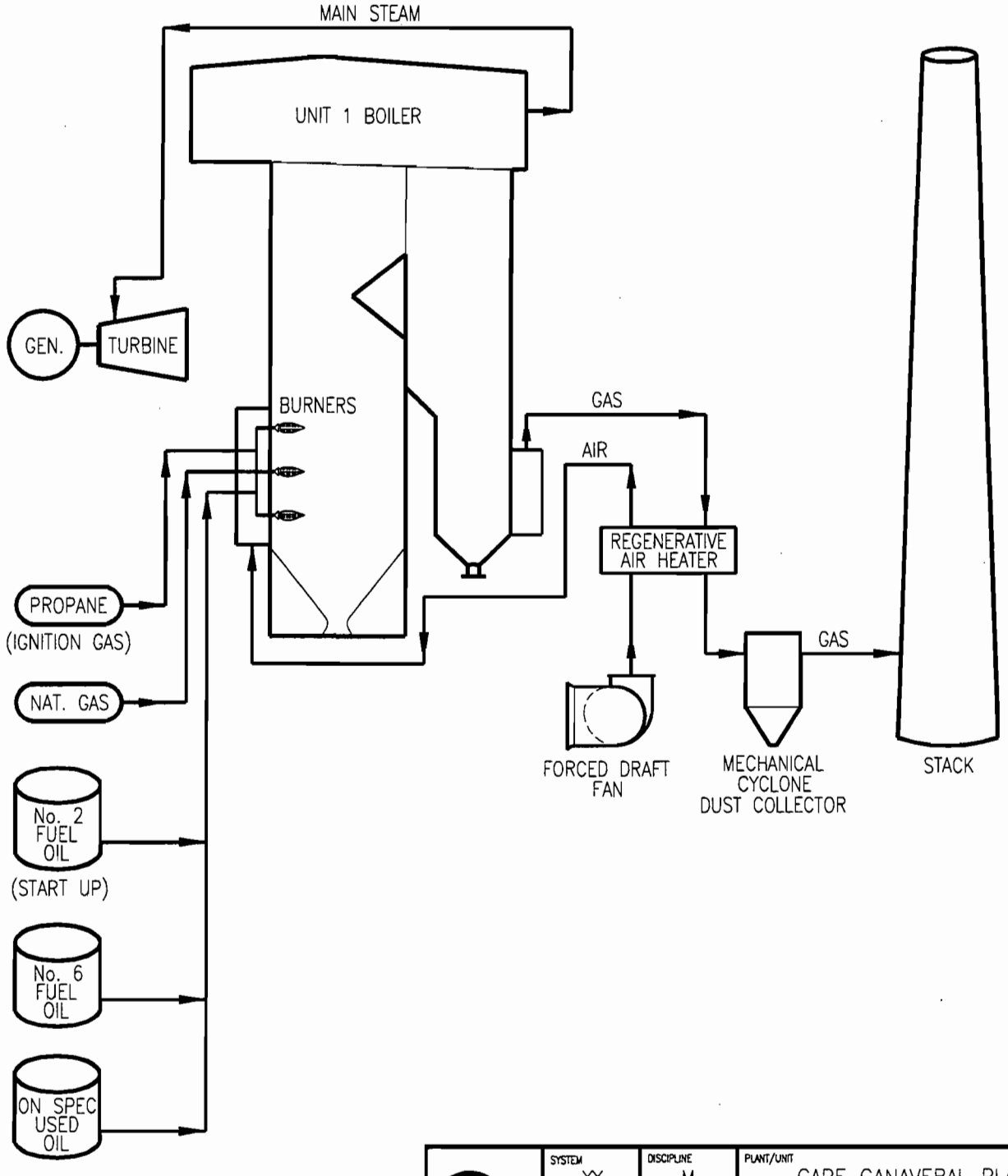
Repowering Extension Plan (Form No. 17-210.900(1)(b))
Attached Document ID: Not Applicable

New Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Retired Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Not Applicable

ATTACHMENT: PCCEU1_1.bmp



PERMITTED FUEL OPTIONS

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	8/3/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	CAPE CANAVERAL PLANT
SCALE: N/A	CAD FILE NAME: CC001901	TITLE: EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU1
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CC001901	

DRAWING NUMBER	SHEET	REV
PCC1-M0103-YY	1 OF 1	0

FPGSYM/FPGBDR-A 9/90

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]	1.00
% 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 PCCU1_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	2.0 [5]	2.5 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.

(5) Sulfur content values typically range between 1.6% and 2.4% and are derived from as-fired laboratory analysis of fuel oil fired at Cape Canaveral Power Plant.

Attachment PCCU1_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 PCCU1_2.txt

Fuel Analysis
Propane (typical)[1]

Emission unit #1 may occasionally light off (start up) on propane fuel, then switch to another fuel, such as No.6 residual oil. The propane fuel is supplied by a commercial vendor and is stored in small tanks located at the bottom of the boiler area. The chemical formula for propane is C_3H_8 .

Parameter	Typical value	Specifications
Specific gravity (@ 60 F)	0.51[1]	none
Heat content (MBtu/bbl)	600 - 1,000	none
% sulfur	0.0031	none
% nitrogen	no specification	none
% ash	no specification	none

Footnotes:

(1) 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 PCCU1_2.txt

Fuel Analysis
On Specification Used Oil

The boiler may occasionally burn used oil during normal operation. All used oil fired in the unit meets the specifications mandated by 40 CFR 279.11. Used oil fired by this boiler is typically derived from plant maintenance activities, and may include used lube oils, transformer oils, etc. that meet the analytical specifications. Criteria used oil values follow:

Parameter	Typical value	Specifications
API gravity (@ 60 F)	30.0[1]	none
Heat content (MBtu/bbl)	6,000[1]	none
% sulfur	0.3[1]	none
% nitrogen	negligible	none
% ash	0.01[1]	0.01

Footnotes:

(1) 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 PCCU1_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

FLORIDA POWER & LIGHT CO.
STACK SAMPLING FACILITIES
CAPE CANAVERAL

PCCU1_4.bmp

FOSSIL FUEL STEAM GENERATORS
UNITS 1 & 2

STACK SPECIFICATIONS

SAMPLING DIAMETER: 264 in.

SAMPLING AREA: 351.9 sq. ft.

SAMPLING PORT DEPTH: 89 in.

No. OF PORTS: 4

No. OF POINTS PER TRAVERSE: 6

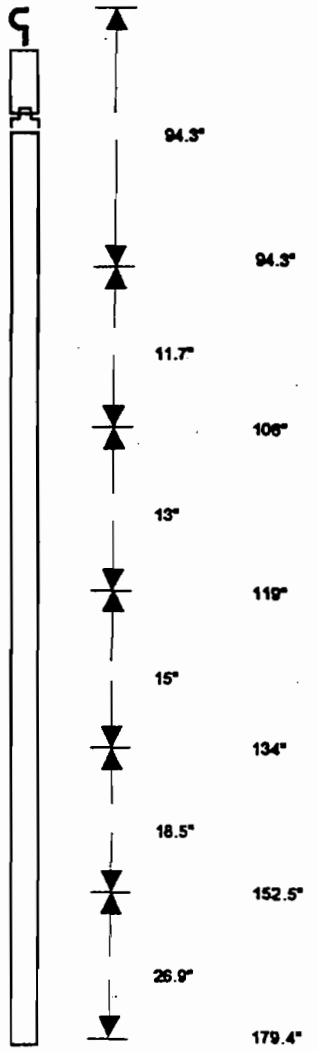
TOTAL No. OF POINTS : 24

SAMPLING TIME PER POINT: 2.5 min.

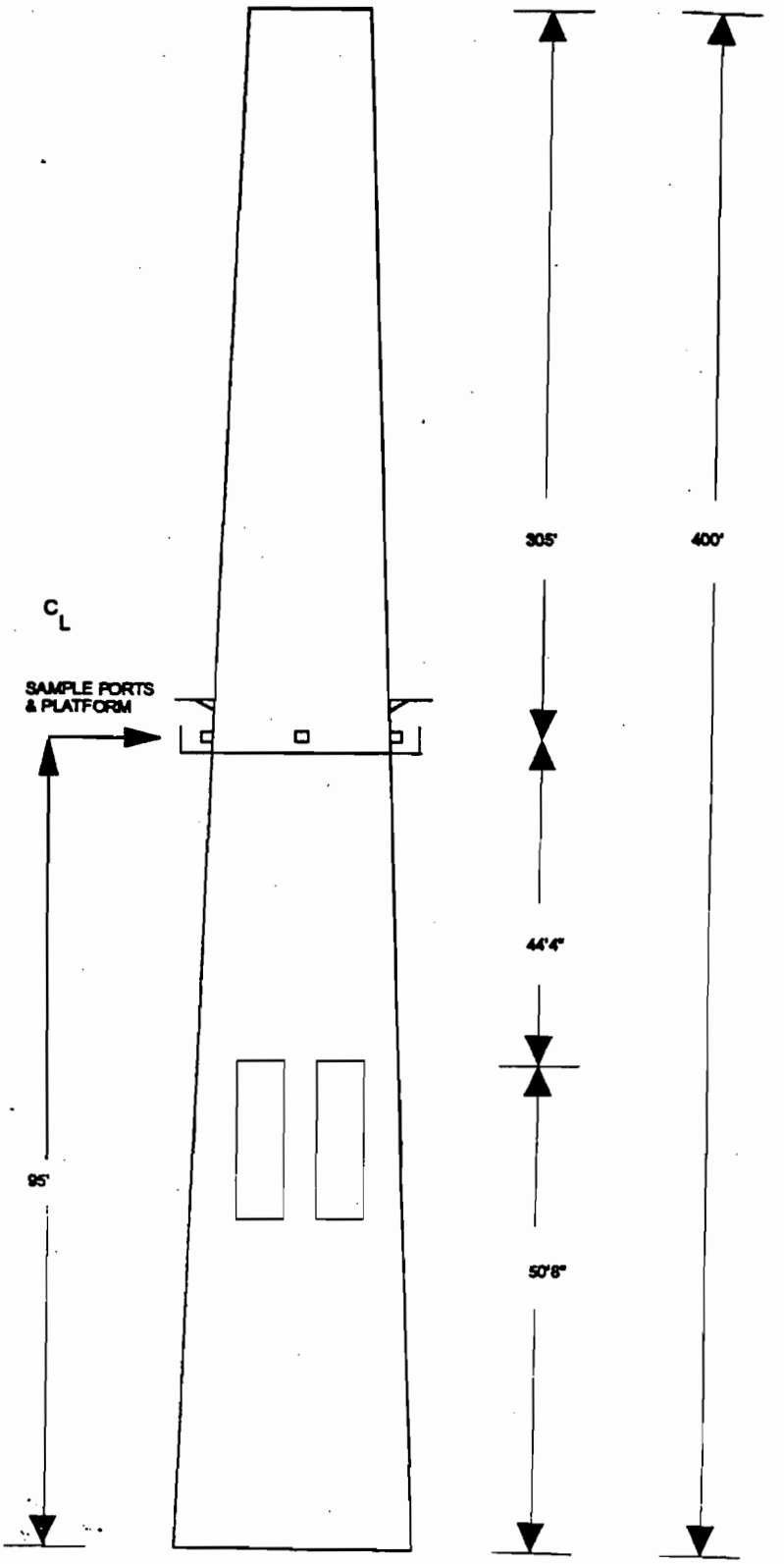
TOTAL SAMPLING TIME: 60.0 min.

NOTE: DRAWING IS NOT TO SCALE

PARTICULATE SAMPLING PROBE DIAGRAM



STACK DIAGRAM



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

FILE: PCCTTLV.PRE

Attachment PCCU1_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 PCCU1_10.txt
Alternative Methods of Operation

Operation at Various Capacities and Heat Input Rates
The Cape Canaveral boilers may be operated up to 8760 hours per year at heat input rates from zero to 4,000 MMBtu per hour on No.#6 oil, and from zero to 4,180 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 units may be fired with a variable combination of No. 6 residual fuel oil, natural gas, or No. 2 fuel oil. The units may occasionally utilize propane fuel to light off (start up) the boiler, then switch to another fuel, such as No.6 residual oil. The units may also burn on-specification used oil meeting EPA specifications under 40 CFR 279.11. The quantity of on-specification used oil shall not exceed 2,413,530 gallons per year for the two units.

Current emissions limitations are as follows:

Pollutant	Emission Limit
Particulate matter	0.1 lb/MMBtu
Sulfur dioxide	2.75 lb/MMBtu

Oil and Gas Co-firing
The emission units may co-fire natural gas with residual oil. When combusting both fuels simultaneously, the percentage of natural gas will be adjusted to ensure that the applicable SO2 emission limit and visible emission limits are complied with.

Soot blowing
The units 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
When residual oil is fired, various additives such as Magnesium hydroxide (MgOH) are added to the boiler on a continuous basis. This material is typically added to the fuel oil just prior to its being fed into the furnace, but it may also be injected into the boiler via 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 Cape Canaveral, 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 PCCU1_10.txt
Alternative Methods of Operation

NOT PERMITTED.

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 the Cape Canaveral units 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 offsite 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 PCCU1_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).

Air operation permit No. AO05-217321 contains the following conditions:

1. Heat input rate for Unit 1 is not to exceed 4,000 mmBtu/hour while firing No.6 residual fuel oil or 4,180 mmBtu/hour while firing natural gas. *FPL tracks heat input on a continuous basis using fuel sampling and analysis and fuel flow measurement.*

2. The boiler shall be fired with a variable combination of No. 6 residual fuel oil, natural gas, No.2 fuel oil, propane gas or on-specification used oil from FPL operations. The quantity of on-specification used oil to be fired shall not exceed 2,413,530 gallons/year. *FPL tracks the fuel usage on a continuous basis.*

3. The maximum allowable emissions for Unit 1 are as follows:

Pollutant	Fuel	Emission Limit	Test Method
Particulate Matter - Steady-State	Oil	0.1 lb/mmBtu	EPA Method 5 or 17
Soot Blowing or Load Changing.	Oil	0.3 lb/mmBtu (3 hrs./24 hrs.)	EPA Method 5 or 17
Sulfur Dioxide -	Oil	2.75 lb/mmBtu	Monthly Fuel Analysis
Visible Emissions - Steady-State	Oil	40 percent opacity	DEP Method 9
Soot Blowing or Load Changing.	Oil	60 percent opacity (3 hrs./24 hrs.)	DEP Method 9

FPL conducts annual compliance testing to determine compliance with permitted emission limitations.

 Unit Boiler 2

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 2 Steam Generator

2. Emissions Unit Identification Number: 002
   (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: 4911

6. Emissions Unit Comment (limit to 500 characters):
   The generator nameplate rating is taken from the FPL 10-year Site Plan, which is provided 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 measurement.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters):
   Multiple Cyclone w/Fly Ash Reinjection

2. Control Device or Method Code: Multiple Cyclone w/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

1. Initial Startup Date (DD-MON-YYYY): 05/10/69

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

3. Package Unit:
   Manufacturer: Foster-Wheeler Model Number: NA

4. Generator Nameplate Rating: 402 MW

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

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 4180 mmBtu/hr

2. Maximum Incineration Rate: lbs/hr
   tons/day

3. Maximum Process or Throughput Rate: **Units:**

4. Maximum Production Rate: **Units:**

5. Operating Capacity Comment (limit to 200 characters):
   The heat input number given above is reflective of natural gas firing. The maximum heat input rate for residual oil firing is 4,000 mmBtu/hour.

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 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: Unit 2 boiler
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): The EU-2 emission unit (Unit 2 boiler) has one emission point which is the stack.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Emmision unit 2, Cape Canaveral Unit 2 boiler.
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 397 ft
7. Exit Diameter: 18.7 ft
8. Exit Temperature: 287 °F
9. Actual Volumetric Flow Rate: 1274060.8 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: 522.9 North: 3148.9
14. Emission Point Comment (limit to 200 characters): Item #9 above reflects the highest rate measured during April 1995 particulate test. Actual flow rates may vary. The temp. in item 8 may vary due to condition of air heaters, fuel type, load, etc..

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): Unit 2 Boiler burning natural gas fuel
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 3.98
5. Maximum Annual Rate: 34873.14
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): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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 2 Boiler burning No. 6 residual oil
2. Source Classification Code **(SCC):** 1-01-004-01
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 26.3
5. Maximum Annual Rate: 232140
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash: 0.1
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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): Unit 2 Boiler burning No.2 diesel fuel oil
2. Source Classification Code (SCC): 1-01-005-01
3. SCC Units: Thousand gallons burned
4. Maximum Hourly Rate: 29.41
5. Maximum Annual Rate: 257647.06
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *2* Segment #: *4*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 2 Boiler burning propane
2. Source Classification Code **(SCC):** 1-01-006-01
3. SCC Units: Million cubic feet burned
4. Maximum Hourly Rate: 4.18
5. Maximum Annual Rate: 36616.8
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur:
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 1000
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 2 Boiler burning on-specification used oil
2. Source Classification Code **(SCC):** 1-01-013-02
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 29.42
5. Maximum Annual Rate: 2413.53
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): The unit is currently permitted to burn a combination of #6 resid. oil, nat. gas, #2 fuel oil, propane or on-spec. used oil. The qty of on-spec. used oil is currently limited to 2,413,530 gpy.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *2* Segment #: *6*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 2 Boiler chemical cleaning waste evaporation. This process may be undertaken while firing natural gas or #6 residual oil.
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 #: *7*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Unit 2 Boiler chemical cleaning waste evaporation. This process may be undertaken while firing natural gas or #6 residual oil.
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).

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
CO	NA	NA	NS
H107	NA	NA	NS
H133	NA	NA	NS
HCL	NA	NA	NS
NOX	NA	NA	NS
PB	NA	NA	NS
PM	076	NA	EL
PM10	NA	NA	NS
SAM	NA	NA	NS
SO2	NA	NA	EL
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 #:

Pollutant Detail Information

1. Pollutant Emitted: Sulfur Dioxide
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 11000 lbs/hr 48180 tons/yr
4. Synthetically Limited? (Yes/No): No
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 2.75 **Units** lb / mmBtu Reference: DEP Rule 62-296.405(1)(c)1.j.
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
8. Calculation of Emissions (limit to 600 characters): 2.75 lb/mmBtu x 4000 mmBtu / hour = 11000 lb / hour (11000 lb / hour x 8760 hours / year)/2000 lb / ton = 48180 tons per year
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): Note: assumed heat input rate from #6 residual oil for calculation.

Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code:
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :

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:	Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 2.75	Units : lb/mmBtu
4. Equivalent Allowable Emissions: 11000 lbs/hr	48180 tons/yr
5. Method of Compliance: Fuel sampling & analysis	
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters): **157** 2.75 lb/mmBtu is the current regulatory limit on SO2 emissions [62-296.405(1)(c)1.j. F.A.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 #:** *2* **Pollutant #:** *4*

Pollutant Detail Information

1. Pollutant Emitted: Particulate Matter - Total
2. Total Percent Efficiency of Control: %
3. Potential Emissions: 500 lbs/hr 2190 tons/yr
4. Synthetically Limited? (Yes/No): No
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : to tons/yr
6. Emission Factor: 0.125 **Units** lb/mmBtu Reference: Rules 62-296.405(1)(b) and 62-210.700(3)
7. Emissions Method Code: (0,1, 2, 3, 4, 5): 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
8. Calculation of Emissions (limit to 600 characters): 0.125 lb/mmBtu x 4000 mmBtu/hr = 500 lb/hr 500 lb/hrs x 8760 hr/yr x ton/2000lb = 2190 tons/yr
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): The PM emission factor in #8 of 3hrs/24hrs at 0.3lb/mmBtu and 21hrs/24hrs at 0.1lb/mmBtu = avg. 0.125 lb/mmBtu.

Allowable Emissions (Pollutant identified on front page)

A.

1. Basis for Allowable Emissions Code:
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: Units :

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

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.1 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 400 lbs/hr 1533 tons/yr
5. Method of Compliance: Rule 62-296.405(1)(e)2.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **198** 0.1 lb/mmBtu = steady-state reg. limit for PM. Equiv. allowable emissions are for liquid fuel. Stack test is only required if fuel oil is fired>400 hours during the calendar year [62-296.340(1)(e)].

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

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.3 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 1200. lbs/hr 657 tons/yr
5. Method of Compliance: 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: VE40
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 40 % Exceptional Conditions: % 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) and (1)(e)1., F.A.C. Visible Emissions limited to 40% opacity, except for allowed excess emissions. Compliance testing is performed annually using EPA Method 9.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE60
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 60 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 24 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Rule 62-210.700(3), F.A.C. limits soot blowing & load changing to 60% opacity for up to 3 hrs/24 hrs, with < 4, 6-minute pds of up to 100% opac. if unit has an operational CEM.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *2*
Visible Emissions Limitation #: *3*

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % 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): Sulfur Dioxide
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: TECO Model Number: 43B Serial Number: 43B-47734-279
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/31/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(1)

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): Nitrogen Oxides
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: TECO Model Number: 42 Serial Number: 42-47784-279
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/31/94
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 #: *3*

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: N3L2467T
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/31/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(3)(i)

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

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

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s): Volumetric flow rate
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: Air Monitor Model Number: MASSTRON Serial Number: 6262D
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 08/31/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(1)

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *2*
Continuous Monitor #: *5*

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s): Visible emissions (opacity)
3. CMS Requirement Code(R/O): RULE Rule / Other
4. Monitor Information: Manufacturer: Lear Siegler Model Number: RM41 Serial Number: 878
5. Installation Date (DD-MON-YYYY): 07/22/94
6. Performance Specification Test Date (DD-MON-YYYY): 01/11/95
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(4)

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):
This emission unit began operation on 05/10/69 which pre-dates the major source PSD baseline date of 1/5/75. FPL believes PSD does not apply to this emission unit.

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 : PCCU1_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PCCU1_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : PCCU1_3.txt Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : PCCU1_4.bmp Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Previously submitted Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PCCU1_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 : PCCU1_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 : PCCU1_13.txt
Attached Document ID / Not Applicable

13. Enhanced Monitoring Plan : Not Applicable
Attached Document ID / Not Applicable

14. Acid Rain Permit Application

Acid Rain Application - Phase II (Form No. 17-210.900(1)(a))
Attached Document ID: Not Applicable

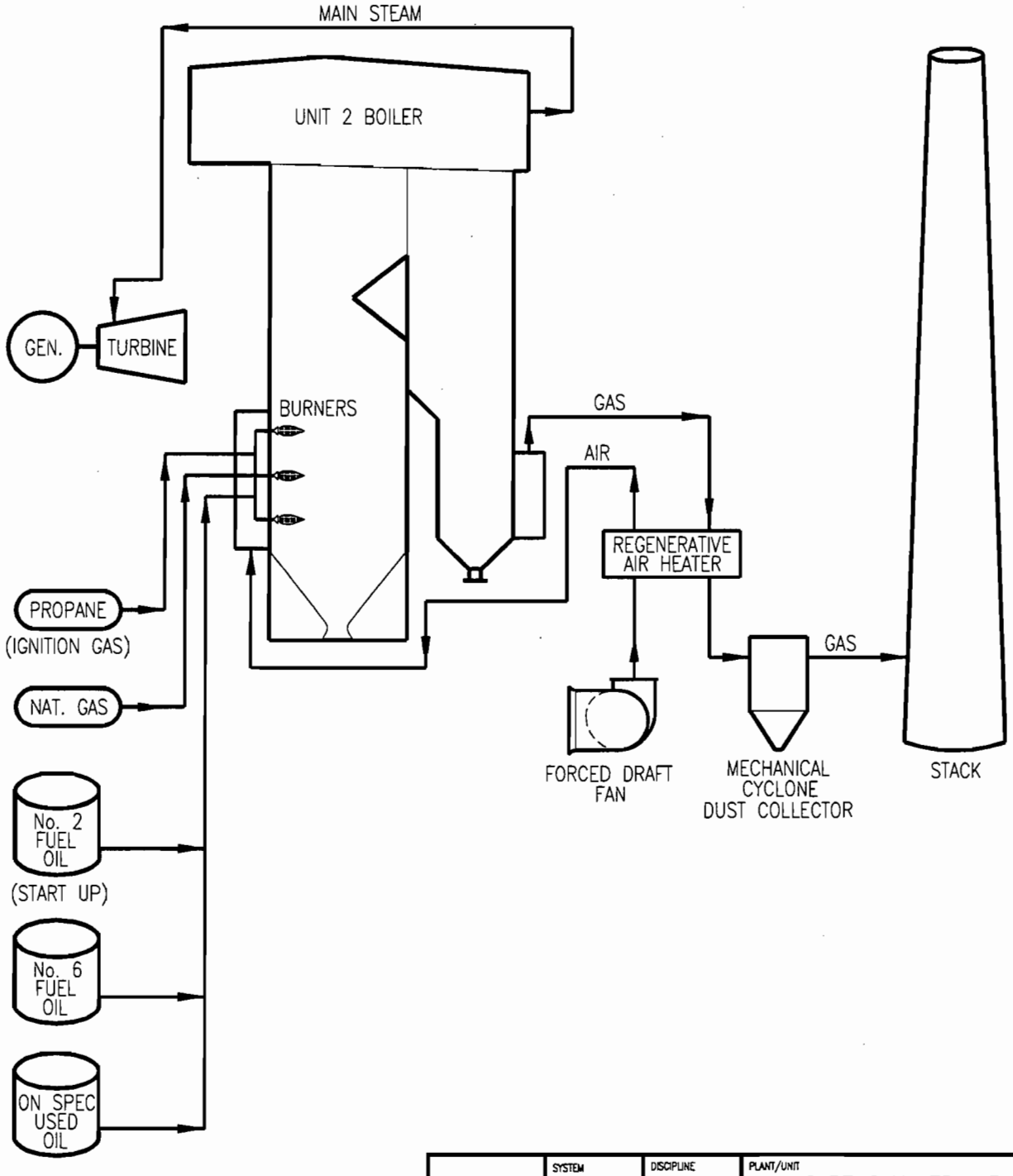
Repowering Extension Plan (Form No. 17-210.900(1)(b))
Attached Document ID: Not Applicable

New Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Retired Unit Exemption (Form No. 17-210.900(1)(c))
Attached Document ID: Not Applicable

Not Applicable

ATTACHMENT: PCCEU2_1.bmp



PERMITTED FUEL OPTIONS

TECHNICAL ACCEPTANCE | ENGINEERING ORGANIZATION | ORG | BY | DATE

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

BAR CODE

REV	DATE	REVISION DESCRIPTION	PWB BY	PWB CH	CSP COR	CSP APR	ETS ORG
0	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: CAPE CANAVERAL PLANT
SCALE: N/A	CAD FILE NAME: CC001902	TITLE: EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU2
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CC001902	
DRAWING NUMBER: PCC1-M0104-YY		SHEET: 1 OF 1 / REV: 0

FPGSYM/FPGBDR-A 9/90

FLORIDA POWER & LIGHT CO.
STACK SAMPLING FACILITIES
CAPE CANAVERAL

PCCU2_4.bmp

FOSSIL FUEL STEAM GENERATORS
UNITS 1 & 2

STACK SPECIFICATIONS

SAMPLING DIAMETER: 264 in.

SAMPLING AREA: 361.9 sq. ft.

SAMPLING PORT DEPTH: 69 in.

No. OF PORTS: 4

No. OF POINTS PER TRAVERSE: 6

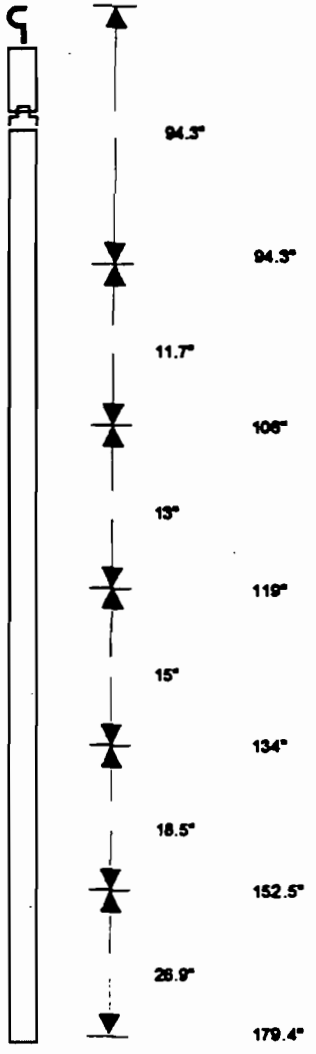
TOTAL No. OF POINTS : 24

SAMPLING TIME PER POINT: 2.5 min.

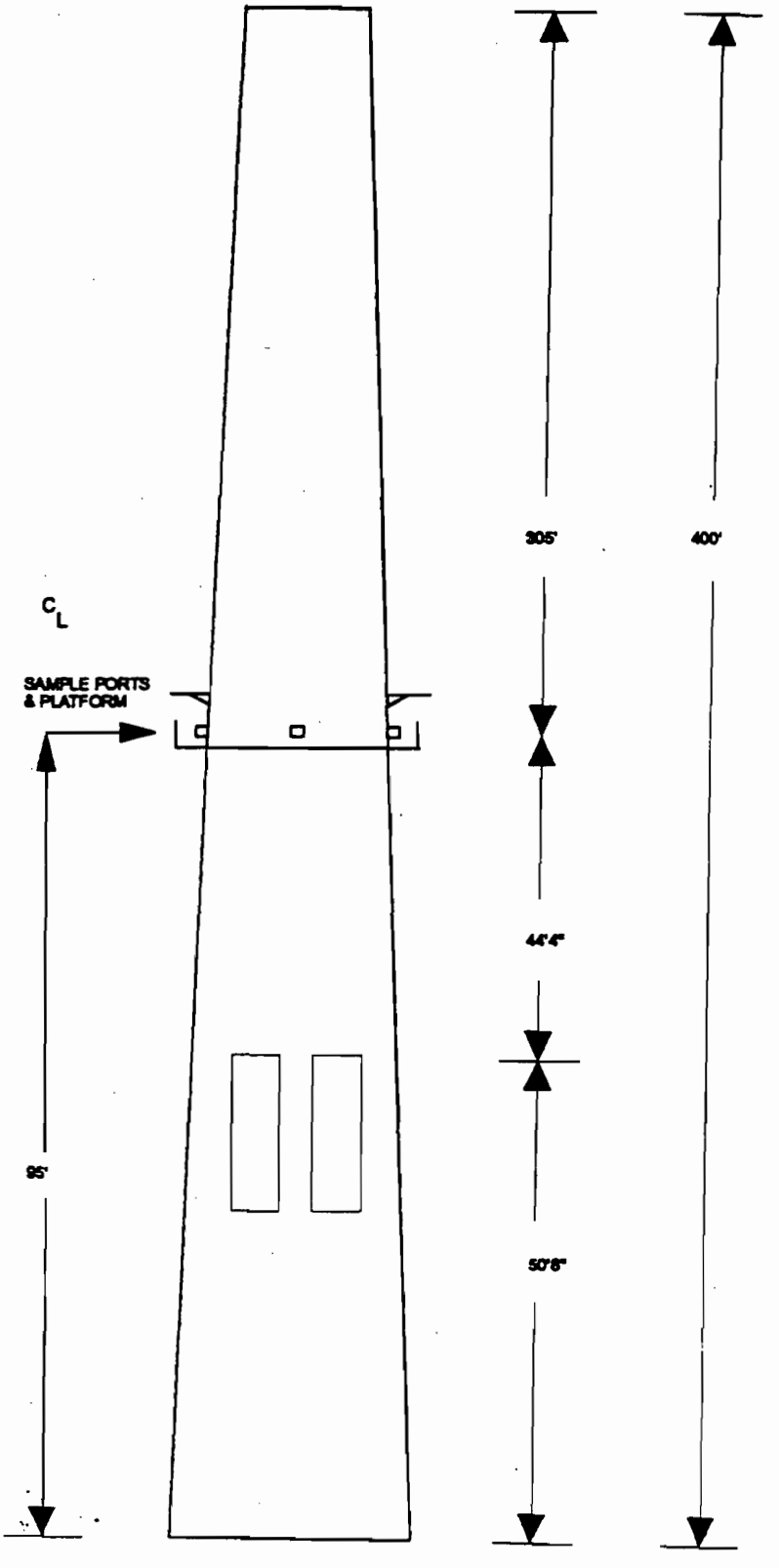
TOTAL SAMPLING TIME: 60.0 min.

NOTE: DRAWING IS NOT TO SCALE

PARTICULATE SAMPLING PROBE DIAGRAM



STACK DIAGRAM



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

FILE: PCCTLV~~2~~

Attachment PCCU2_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).

Air operation permit No. AO05-252219 contains the following conditions:

1. Heat input rate for Unit 2 is not to exceed 4,000 mmBtu/hour while firing No.6 residual fuel oil or 4,180 mmBtu/hour while firing natural gas. *FPL tracks heat input on a continuous basis using fuel sampling and analysis and fuel flow measurement.*

2. The boiler shall be fired with a variable combination of No. 6 residual fuel oil, natural gas, No.2 fuel oil, propane gas or on-specification used oil from FPL operations. The quantity of on-specification used oil to be fired shall not exceed 2,413,530 gallons/year. *FPL tracks the fuel usage on a continuous basis.*

3. The maximum allowable emissions for Unit 2 are as follows:

Pollutant	Fuel	Emission Limit	Test Method
Particulate Matter - Steady-State	Oil	0.1 lb/mmBtu	EPA Method 5 or 17
Soot Blowing or Load Changing.	Oil	0.3 lb/mmBtu (3 hrs./24 hrs.)	EPA Method 5 or 17
Sulfur Dioxide -	Oil	2.75 lb/mmBtu	Monthly Fuel Analysis
Visible Emissions - Steady-State	Oil	40 percent opacity	DEP Method 9
Soot Blowing or Load Changing.	Oil	60 percent opacity (3 hrs./24 hrs.)	DEP Method 9

FPL conducts annual compliance testing to determine compliance with permitted emission limitations.

UnREGuLated E.U

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): This EU represents facility-wide unregulated emissions
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): The emergency diesel generator at units 1 and 2 is 500kVA. Please see attached Document PCC-EU-FW for a list of addional unregulated emissions which are included in this emission unit.

Emissions Unit Control Equipment

PCC-EU-FW

A. Control Equipment # :

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

B. Control Equipment # :

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

C. Control Equipment # :

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

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

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

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: **Units:**
4. Maximum Production Rate: **Units:**
5. Operating Capacity Comment (limit to 200 characters): The emergency diesel generator will be limited to 400 hpy of operation. Other equipment may run up to 8,760 hpy.

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. 62-210.700(1) F.A.C. 62-210.700(4)	F.A.C. 62-210.700(6) F.A.C. 62-296.320(4)(b)	F.A.C. 62-296.320(4)(c) F.A.C. 62-297.310(2)(b)	F.A.C. 62-297.310(4)(a)2. F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)

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: Facility-wide unregulated emissions
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) :
6. Stack Height: ft
7. Exit Diameter: ft
8. Exit Temperature: °F
9. Actual Volumetric Flow Rate: acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: East: North:
14. Emission Point Comment (limit to 200 characters): Due to the variety of equipment included in this EU, no representative information can be provided for every piece of equipment.

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 emergency diesel generator
2. Source Classification Code **(SCC):** 2-02-001-02
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 0.023
5. Maximum Annual Rate: 9.2
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): The maximum annual rate is calculated based upon 400 hours per year of operation.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #2B - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 464799036
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Breathing loss = 65.28 lbs VOC / yr (per EPA Tanks2 program) Working loss = 206.07 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.14 TPY, using estimated activity factor given above.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #2M - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 464304264
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Breathing loss = 2.66 lbs VOC / yr (per EPA Tanks2 program) Working loss = 45.30 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.02 TPY, using estimated activity factor given above.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *3* Segment #: *4*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #1M - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 464304264
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Breathing loss = 2.66 lbs VOC / yr (per EPA Tanks2 program) Working loss = 45.30 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.02 TPY, using estimated activity factor given above.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *3* Segment #: *5*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground tank #1B - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 464799036
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Breathing loss = 65.28 lbs VOC / yr (per EPA Tanks2 program) Working loss = 206.07 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.14 TPY, using estimated activity factor given above.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *3* Segment #: *6*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground diesel tank - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 10000
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Breathing loss = 0.37 lbs VOC / yr (per EPA Tanks2 program) Working loss = 0.44 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = negligible using estimated activity factor given above.

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

Segment Description and Rate:

Information for Facility_ID :*1* Emission Unit #: *3* Segment #: *7*

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Above-ground unleaded tank - Working and breathing loss
2. Source Classification Code **(SCC):** 4-03-010-21
3. SCC Units: Thousand gallons transferred or handled
4. Maximum Hourly Rate:
5. Maximum Annual Rate:
6. Estimated Annual Activity Factor: 10000
7. Maximum Percent Sulfur: 2.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Breathing loss = 1243.79 lbs VOC / yr (per EPA Tanks2 program) Working loss = 159.43 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.70 using estimated activity factor given above.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): OTHER [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code:
5. Visible Emissions Comment (limit to 200 characters): The variety of equipment in this EU may be subject to the general visible emission standard, if they emit PM.

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 the miscellaneous equipment in this emission unit.

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):
Information provided is for the emergency generator.

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 : PCCU3_1.bmp Attached Document ID / Not Applicable / Waiver Requested ✓
2. Fuel Analysis or Specification: PCCU3_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 : PCCU3_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 : Not Applicable
Attached Document ID / Not Applicable

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

12. Identification of Additional Applicable Requirements :
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

PCC-EW-FW 2

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS 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 with the Title V Application. The trivial activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in DARM's guidance.

Pursuant to Rule 62-210.300(3)(b)1., notice is herein provided that the emissions units listed below are not subject to a permit issued by the Department of Environmental Protection and are exempt from permitting until a final determination is made under the Title V permitting requirements (Rule 62-213 F.A.C.). These units would not have triggered review under Rules 62-212.400 or 62-212.500 or any new source performance standard listed in Rule 62-204.800 F.A.C.

2.

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CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

UNIT 1 BOILER/STEAM GENERATOR POWER BLOCK
Equipment/SystemSize/Source

Steam & Air Evacuation Systems
Blow Down Tank - 16" Vent with Silencer

Vacuum Tanks - 2" Maintenance Vent

Moisture Separator 8" Exhaust Hood

Moisture Separator 1" Continuous Vent

Hogging Ejector 8" Exhaust Hood w/Silencer

After Condenser 4" Maintenance Vent

Steam Drum - 3" Safety Rlf Valves

Steam Drum - 2" Maint. Vent

Main Stm From Superheater - Safety Rlf Vlvs with Silencer

Main Stm Stop Valves - Maint. Valves

Reheat Outlet Header - 6" Safety Rlf Vlvs

Reheat Outlet Header - 2" Maint. Vents

Reheat Lines at Turb. - 2" Maint. Vents

Auxiliary Steam Lines Safety Relief Valves

Reheat Inlet Header - 6" Safety Relief Valves

Extraction Heaters Safety Relief Valves

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Feedwater, Condensate & Heater Drains
Condensate Storage Tank (Gal.) Continuous Vent

Condensate Recovery Tank Continuous Vent

Condensate Pumps Inlet Safety Relief Valves

Condensate Recovery Flash Tank - 8" Safety Relief Valves

Condensate Recovery Cooler -¾" Maintenance Vent

Feedwater, Condensate & Heater Drains
Vent Condenser ½" Maintenance Vent

Gland Steam Condenser 6" Continuous Vent

Gland Steam Condenser Inlet Safety relief Valve - 1"

After Condenser ½" Maintenance Vent

Inlet Condenser ½" Maintenance Vent

Extraction Heaters 1" & ¾" Maintenance Vents

Morpholine Pumps ½" Relief Valves

Boiler Feed Pumps Inlet -1" Maintenance Vents

Hydrazine Pumps ½" Relief Valves

Phosphate Pumps ½" Relief Valves

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Service & Cooling Water
Elevated Water Tower Vent

Cooling Water Surge Tank Vent

Closed Cooling Water Heat Exchanger "A" & "B" 1 Vent

F.D. Fan Hydraulic Coupling Coolers ¾" Maintenance Vents

Turbine Lube Oil Coolers "A" & "B" ½" Maintenance Vents

Hydrogen Coolers A, B, C & D - ½" Maintenance Vent

Chemical Feed-Open Tank with Cover

Fuels & Lube Oil System
Blow Back Tanks Relief Valves

Fuel Oil Lines Miscellaneous Relief Valves

Fuels & Lube Oil System (Continued)Fuel Oil Stripping Pump - 4" Exhaust Head

Fuel Oil Lines Miscellaneous Maintenance Valves - 1" & ¾"

Fuel Oil Burner Booster Pumps Maintenance Vents

Lube Oil Batch Tank Filter Vent

Lube Oil Conditioner Filter Vent

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Fuels & Lube Oil System
Lube Oil Reservoir Filter Vent

Lube Oil Coolers ½" Maintenance Vent

Oil Mist Eliminator 6" Vent

Vapor Extractor Vent

Generator Loop Seal Tank 4" Exhaust Head Vent & High Point Tee Vent

Lime Slurry, Caustic Wash, Station & Instrument Air
Slurry Service Tank

Slurry Mixing Tank

Steam Relief Valves at Caustic Wash Service Tank

Caustic Wash Service Tank

Caustic Mixing Tank

Air Receivers Relief Valves

Condensate System
Gland Steam Condenser - 6" Blower Exhaust (Continuous)

After Condenser ½" Maintenance Valve

Inter Condenser ½" Maintenance Valve

Miscellaneous Condensate Lines - ¾" Relief & 1" Maintenance Valves

Extraction Heaters 1" & ¾" Maintenance Valves

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

UNIT 2 BOILER/STEAM GENERATOR POWER BLOCK
Equipment/SystemSize/Source

Feedwater System
Miscellaneous Feedwater Lines ¾" & 1" Maintenance Vents

Feedwater Heaters ¾" Maintenance Valves

Miscellaneous Feedwater Lines 1" Relief Valves

Condensate Recovery System
Condensate Storage Tank Vent (Gal.)

Condensate Storage Tank Instrumentation ½" High Point Vents

Condensate Recovery Tank - 4" Vents

Condensate Recovery Flash Tank - 8" Relief Valve

Condensate From Recovery Cooler - ½" Vent

Chemical Feed System
Ammonia Tanks Pump Discharge Line Relief Valve

Hydrazine (Amerzine) Tanks Pump Discharge Line Relief Valve

Phosphate Tanks Pump Discharge Line Relief Valve

Phosphate Lines ½" Maintenance Vent

Hydrazine (Amerzine) Supply Tank (Gal)

Phosphate Supply Tank (Gal)

Ammonia Supply Tank (Gal)

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Instrument Air System
Instrument Air Receivers #1 & #2 Relief Valves

Separator Discharge 4" Line Relief Valves

Service Air System
Service Air Receivers #1 & #2 - Relief Valves

4" Separator Discharge Line Relief Valves

Closed Cooling Water System
Chemical Feed Tank

F.D. Fan Hydraulic Coupling Coolers ¾" Maintenance Vent

B.F.P. Hydraulic Coupling Coolers ¾" Maintenance Vent

Turbine Lube Oil Coolers - ¾" Maintenance Vent

Closed Cooling Water Heat Exchangers 1" Maintenance Vent

Service Water & Fire Protection Systems
City Water Storage Tank Vent

Raw Water Tank Vent

Raw Water Pump Discharge Relief Valve

City Water Pump Discharge Maintenance Vent

Fire Protection Line Maintenance Vent

Fuel Oil System
Miscellaneous Fuel Oil Lines Maintenance

Blowback Tanks Relief & Maintenance Valves

Fuel Oil Burner Booster Pumps Maintenance Valves

Magnesium Hydroxide Tank (Gal) Vent (Fuel Additive)

Station Air at Blowback Tanks Maintenance Vents

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Nitrogen Purge System
High Pressure Heater-1" Outlet Lines Nitrogen Purge Vents

Steam Drum-¾" Nitrogen Purge Vents

Secondary Super Heater Outlet-¾" Nitrogen Purge Vents

Primary Super Heater Outlet-¾" Nitrogen Purge Vents

Soda Ash Wash System
Soda Ash Wash Service Tank

Soda Ash Mixing Tank

Service Water at Soda Ash Service Pump Relief Valve

Auxiliary Steam to Soda Ash Heaters - 1" Relief Valve

Fuel Management System
Fuel Gas System - 2" Vent Riser

Fuel Oil Line from Booster Pumps - 1" Maintenance Vent

Fuel Gas Flow Valve - Instrument Air Supply Reservoir Relief Valve & Control Valves Vent

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Steam & Air Evacuation System
Steam Drum - 3" Relief Valves

Steam Drum Maintenance Vents

Platen Inlet Header Maintenance Valves

Main Steam Relief Valves with Silencer

Reheat Outlet Header Relief Valves

Reheat Outlet Header Maintenance Valves

Reheat Inlet Header Relief Valves

Blowdown Tank 16" Vent with Silencer

After Condenser Vents

Hogging Ejector Exhaust Head with Silencer -10"

Steam Jet Air Ejector with Relief Valves

Moisture Separator Exhaust Head with Silencer - 10"

Moisture Separator 1" High Point Continuous Vent

Vacuum Tanks 2A, 2B, 2C, & 2D - 4" Maintenance Vent

Main Steam Stop Valves Maintenance Vent

Steam Line at Steam Seal Regulator 8" Relief Valve

Extraction Steam Heaters - 4" Relief Valves

Steam & Air Evacuation System
Extraction Steam Heaters Maintenance Vents

Header Drain Pump Discharge Line Maintenance Vents

Miscellaneous Auxiliary Steam Relief Valves

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

GENERAL SITE

Miscellaneous Activities
Plant Grounds Maintenance

Routine Maintenance/Repair Activities

Non-Halogenated Solvent Cleaning Operations

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

Transformers, Switches and Switchgear, Processing & Venting

Electrically Heated Equipment used for Heat Treating, Tracing, Drying, Soaking, Case Hardening or Surface Conditioning

Air Compressors and Centrifuges used for Compressing Air

Storage of Product in Sealed Containers

Use of spray cans and solvents for maintenance activities

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

Miscellaneous Mobile Equipment Operation
Compressors, Chain Saws, Small Generators, (<100KW) Welding Machines, Electric Saws & Drills, Etc.

Chlorine Injection System
2 ea, 3,000 gallon sodium chorite tanks - tank vents

1 ea, 550 gallon HCl tank - tank vents

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Miscellaneous Building Venting
Chlorine Storage Building Exhaust Fan

I & C Building Exhaust Fans & Bathroom Vents

Laundry Building Exhaust Fan

Paint & Lube Oil Storage Building Exhaust Fan

East Warehouse Roof Exhaust Vent

Lab/Water Treatment Exhaust Vent

Receiving Warehouse Roof Exhaust Fans

Old Warehouse Exhaust Fans

Boiler Feed Pump Rooms Exhaust Fans

Elevator Shaft Exhaust Fans

Switchyard Control Building Exhaust Fan

Misc. Building Heating/Cooling
Service Bldg.

I & C Shop

Lab/Office Bldg.

Receiving Whse

Office,Gas Metering

Area Office

Systems Protection

Office

Control Room

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Fuel Oil
Barge Unloading Area

Gas Metering Area
(Units 1 & 2) 8" Relief Valves

Recreation Area
PavilionKitchen Exhaust Fan

Restrooms Sanitary Vent

Charcoal Grill Exhaust Hood

Motor Fuels Area
500 Gal. Diesel Fuel Storage Tank with 2" Vent

C.E.M. Building
Gas Bottles

Control, Auxiliary & Miscellaneous Buildings-Portable and Sanitary
Sanitary Vents

"Donkey Boiler" Mobile Auxiliary Steam Unit Less than 10 mm BTU/hr

Bulk Gas Building
Gas Bottles

Hydrogen Storage Building
Gas Bottles

Service Building
Roof Mounted Exhaust Fans

Machine Shop Exhaust Fans

Locker Room Exhaust Fan

Store Exhaust Fans

Bead Blasters with Hopper & 4" Vent

Parts Washer with #2 Distillate

CAPE CANAVERAL PLANT
LIST OF UNREGULATED TRIVIAL OR DEMINIMIS ACTIVITIES

Control Building
Battery Room Exhaust Fan

M.C.C. Area Exhaust Fan

Relay Room Exhaust Fan

Chemical Storage Room

Water Treatment
Caustic Storage Tank

Acid Storage Tank

Condensate Storage Tank with 6" Vent

City Water Storage Tank

Chemical Storage Building

Waste Water Treatment
Storm Water Basin

Neutralization Basin

Evaporation/Percolation Basin

Settling Basin

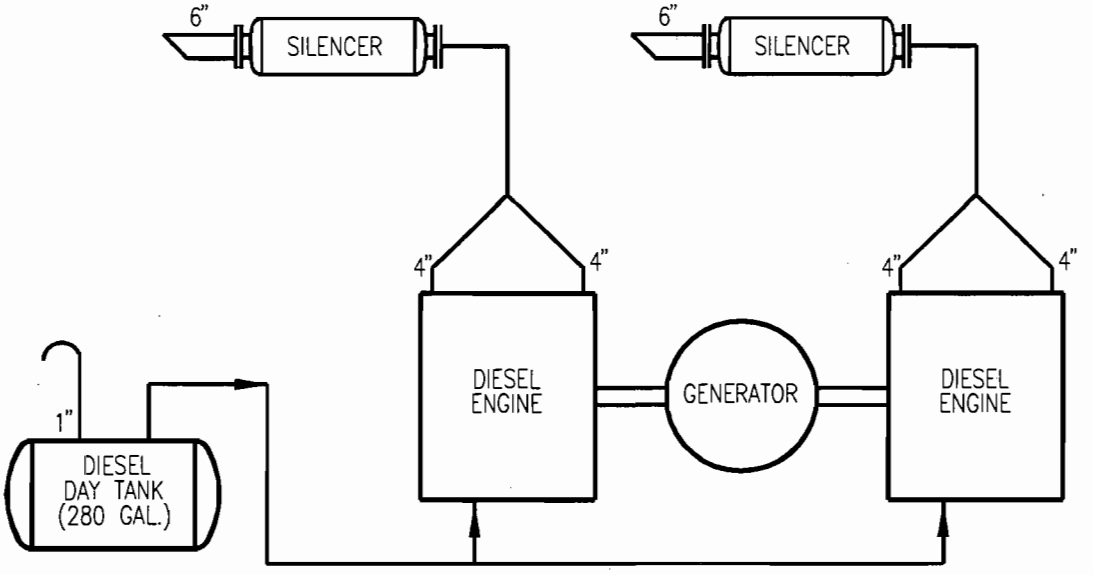
Emergency Diesel Generators
500 kW mobile diesel generator, 4.6 mmBtu/hr

500 kW fixed diesel generator, 3.13 mmBtu/hr

2, 20 kW diesel generators (hurricane supplies)

2, 1200W gasoline-powered diesel generators (hurricane supplies)

ATTACHMENT: PCCEU3_1.bmp



WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

BAR CODE

REV	DATE	REVISION DESCRIPTION	PWB BY	PWB CH	CSP COR	CSP APR	ETS ORG
0	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	CAPE CANAVERAL PLANT
SCALE: N/A	CAD FILE NAME: CC001903	TITLE: EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU3
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: CC001903	
DRAWING NUMBER: PCC1-M0105-YY		SHEET: 1 OF 1 / REV: 0

FPGSYM/FPGBDR-A 9/90

Attachment PCCU3_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 PCCU3_6.txt

Procedures for Startup / Shutdown

The emergency diesel generator is the main backup emergency electrical power supply component for the fossil 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 weekly basis for 30 minutes to ensure that it will function properly when needed in an emergency.

Startup for the emergency diesel generator begins with actuating a switch which "turns over" the diesel engine until ignition of the diesel fuel commences.

Shutdown is performed when the normal electric power supply to plant equipment is restored. Shutdown is performed by shutting off the diesel fuel supply to the emergency diesel generator.

Best Operating Practices include proper maintenance of the diesel engines by trained personnel on the generating unit in accordance with manufacturer specifications, and the purchase of diesel fuel that also meets specifications.

If excess emissions are suspected during operation of the emergency diesel generator, appropriate measures to minimize the duration of the event may include shutting down the equipment and investigating the cause of the opacity.