TITLE V PERMIT APPLICATION
FLORIDA POWER & LIGHT COMPANY
MANATEE PLANT
PARRISH, FLORIDA

Prepared For:
Florida Power & Light Company
700 Universe Boulevard
Juno Beach, Florida 33408

Prepared By:
Golder Associates Inc.
6241 NW 23rd Street, Suite 500
Gainesville, Florida 32653-1500

May 2003
0237560

DISTRIBUTION:
4 Copies - FDEP
5 Copies – Florida Power and Light
1 Copy – Golder Associates Inc.

Department of Environmental Protection

Division of Air Resources Management

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

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

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: Florida Power & Light Company	
2. Site Name: Manatee Plant	
3. Facility Identification Number: 0810010	[ ] Unknown
4. Facility Location: Street Address or Other Locator: 109050 State Road 62 City: Parrish County: Manatee	Zip Code: 34219-9220
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

Application Contact

1. Name and Title of Application Contact: Kevin Washington, Senior Environmental Engineer		
2. Application Contact Mailing Address: Organization/Firm: Florida Power & Light – Environmental Services Street Address: P.O. Box 14000 City: Juno Beach	State: Florida	Zip Code: 33408
3. Application Contact Telephone Numbers: Telephone: (561) 691-2877	-	Fax: (561) 691 - 7049

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	5/27/03
2. Permit Number:	0810010-009-AV
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Initial Title V air operation permit for an existing facility which is classified as a Title V source.

[ ] Initial Title V air operation permit 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: _____

[ ] Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: _____

Operation permit number to be revised: _____

[ ] Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: _____

[X] Title V air operation permit revision 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 number to be revised: 0810010-008-AV

Reason for revision: Renewal

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

[ ] Air construction permit to construct or modify one or more emissions units.

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

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

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Paul Plotkin – Manatee Plant General Manager

2. Owner/Authorized Representative or Responsible Official Mailing Address:
   Organization/Firm: Manatee Plant
   Street Address: 19050 State Road 62
   City: Parrish State: Florida Zip Code: 34219-9220

3. Owner/Authorized Representative or Responsible Official Telephone Numbers:
   Telephone: (941) 776- 5211 Fax: (941) 776- 5219

4. Owner/Authorized Representative or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative(check here [ ], if so) or the responsible official (check here [X], if so) 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 statutes 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.*

   Paul Plotkin — Signature

   4/24/03 — Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Kennard F. Kosky
   Registration Number: 14966

2. Professional Engineer Mailing Address:
   Organization/Firm: Golder Associates
   Street Address: 6241 NW 23rd Street
   City: Gainesville State: Florida Zip Code: 32653-1500

3. Professional Engineer Telephone Numbers:
   Telephone: (352) 336- 5600 Fax: (352) 336-6603

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 an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions 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 — Date: 5/23/03

(seal)

* Attach any exception to certification statement.

** **Board of Professional Engineers Certificate of Authorization #00001670**

Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
001	Unit #1 Steam Generator	N/A	N/A
002	Unit #2 Steam Generator	N/A	N/A
003	Emergency Diesel Generator, Miscellaneous Mobile Equipment and Internal Combustion Engines	N/A	N/A
004	Painting of Plant Equipment and Non-halogenated Solvent Cleaning Operations	N/A	N/A

Application Processing Fee

Check one: [ ] Attached - Amount: $_____ [N/A] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations: N/A

2. Projected or Actual Date of Commencement of Construction: N/A

3. Projected Date of Completion of Construction: N/A

Application Comment

1. Renewal of Existing Title V Permit.

2. During the life of this renewed Title V permit, Manatee Plant will install an additional nitrogen oxides (NO_x) prevention technology on Fossil-Fuel Steam Boilers Units 1 & 2. The Florida Department of Environmental Protection (FDEP) and Florida Power & Light Company (FPL) have entered into an agreement for the purpose of ensuring continued compliance with the ambient air quality standard for ozone in the Tampa Bay airshed. This agreement is to reduce the emissions of NO_x from Manatee Units 1 & 2 by the installation of a NO_x prevention technology called Reburn. It is anticipated that in 2005 or early 2006 FPL should be complete with project and will apply for a modification of this Title V permit to facilitate the installation of Reburn at Manatee
Units 1 & 2.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 367.250 North (km): 3054.150			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 27°36'21" Longitude (DD/MM/SS): 82°20'44"			
3. Governmental Facility Code: 0	4. Facility Status Code: Active	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911
7. Facility Comment (limit to 500 characters): The facility consists of two fossil fuel-fired steam electric generators and unregulated and exempt emission units.			

Facility Contact

1. Name and Title of Facility Contact: Mary Maxwell
2. Facility Contact Mailing Address: Organization/Firm: FPL - Manatee Plant Street Address: 190050 State Road 62 City: Parrish State: Florida Zip Code: 34219-9220
3. Facility Contact Telephone Numbers: Telephone: (941) 776-5278 Fax: (941) 776-5219

Facility Regulatory Classifications

Check all that apply:

1. [ ] Small Business Stationary Source? [ ] Unknown
2. [X] Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?
3. [ ] Synthetic Minor Source of Pollutants Other than HAPs?
4. [X] Major Source of Hazardous Air Pollutants (HAPs)?
5. [ ] Synthetic Minor Source of HAPs?
6. [ ] One or More Emissions Units Subject to NSPS?
7. [X] One or More Emission Units Subject to NESHAP?
8. [ ] Title V Source by EPA Designation?
9. Facility Regulatory Classifications Comment (limit to 200 characters):

List of Applicable Regulations

Refer to Title V Core List - Attached	

TITLE V CORE LIST

Title V Core List

Effective: 03/01/02

[**Note:** The Title V Core List is meant to simplify the completion of the "List of Applicable Regulations" for DEP Form No. 62-210.900(1), Application for Air Permit - Long Form. The Title V Core List is a list of rules to which all Title V Sources are presumptively subject. The Title V Core List may be referenced in its entirety, or with specific exceptions. The Department may periodically update the Title V Core List.]

Federal: ***(description)***

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.
40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).
40 CFR 82, Subpart F: Recycling and Emissions Reduction.

State: (description)

CHAPTER 62-4, F.A.C.: PERMITS, effective 06-01-01

62-4.030, F.A.C.: General Prohibition.
62-4.040, F.A.C.: Exemptions.
62-4.050, F.A.C.: Procedure to Obtain Permits; Application
62-4.060, F.A.C.: Consultation.
62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.
62-4.080, F.A.C.: Modification of Permit Conditions.
62-4.090, F.A.C.: Renewals.
62-4.100, F.A.C.: Suspension and Revocation.
62-4.110, F.A.C.: Financial Responsibility.
62-4.120, F.A.C.: Transfer of Permits.
62-4.130, F.A.C.: Plant Operation - Problems.
62-4.150, F.A.C.: Review
62-4.160, F.A.C.: Permit Conditions.
62-4.210, F.A.C.: Construction Permits.
62-4.220, F.A.C.: Operation Permit for New Sources.

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 06-21-01

62-210.300, F.A.C.: Permits Required.
62-210.300(1), F.A.C.: Air Construction Permits.
62-210.300(2), F.A.C.: Air Operation Permits.
62-210.300(3), F.A.C.: Exemptions.
62-210.300(5), F.A.C.: Notification of Startup.
62-210.300(6), F.A.C.: Emissions Unit Reclassification.
62-210.300(7), F.A.C.: Transfer of Air Permits.

62-210.350, F.A.C.: Public Notice and Comment.
62-210.350(1), F.A.C.: Public Notice of Proposed Agency Action.
62-210.350(2), F.A.C.: Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review.
62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources.

62-210.360, F.A.C.: Administrative Permit Corrections.
62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.
62-210.400, F.A.C.: Emission Estimates.
62-210.650, F.A.C.: Circumvention.
62-210.700, F.A.C.: Excess Emissions

62-210.900, F.A.C.: Forms and Instructions.
62-210.900(1), F.A.C.: Application for Air Permit - Title V Source, Form and Instructions.
62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.
62-210.900(7), F.A.C.: Application for Transfer of Air Permit - Title V and Non-Title V Source.

CHAPTER 62-212, F.A.C.: STATIONARY SOURCES- PRECONSTRUCTION REVIEW, effective 08-17-00

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 04-16-01

62-213.205, F.A.C.: Annual Emissions Fee.
62-213.400, F.A.C.: Permits and Permit Revisions Required.
62-213.410, F.A.C.: Changes Without Permit Revision.
62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.
62-213.415, F.A.C.: Trading of Emissions Within a Source.
62-213.420, F.A.C.: Permit Applications.
62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.
62-213.440, F.A.C.: Permit Content.
62-213.450, F.A.C.: Permit Review by EPA and Affected States
62-213.460, F.A.C.: Permit Shield.

62-213.900, F.A.C.: Forms and Instructions.
62-213.900(1), F.A.C.: Major Air Pollution Source Annual Emissions Fee Form.
62-213.900(7), F.A.C.: Statement of Compliance Form

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 03-02-99

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.
62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter

CHAPTER 62-297, F.A.C.: STATIONARY SOURCES - EMISSIONS MONITORING, effective 03-02-99

62-297.310, F.A.C.: General Test Requirements.
62-297.330, F.A.C.: Applicable Test Procedures.
62-297.340, F.A.C.: Frequency of Compliance Tests.
62-297.345, F.A.C.: Stack Sampling Facilities Provided by the Owner of an Emissions Unit.
62-297.350, F.A.C.: Determination of Process Variables.
62-297.570, F.A.C.: Test Report.
62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

Miscellaneous:

CHAPTER 28-106, F.A.C.: Decisions Determining Substantial Interests
CHAPTER 62-110, F.A.C.: Exception to the Uniform Rules of Procedure, effective 07-01-98
CHAPTER 62-256, F.A.C.: Open Burning and Frost Protection Fires, effective 11-30-94
CHAPTER 62-257, F.A.C.: Asbestos Notification and Fee, effective 02-09-99
CHAPTER 62-281, F.A.C.: Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling, effective 09-10-96

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap lb/hour	tons/year	4. Basis for Emissions Cap	5. Pollutant Comment
CO	A				
NO_x	A				
PM_{10}	A				
PM	A				
SO_2	A				
VOC	A				
H133	A				
SAM	A				
H106	A				
H107	A				
HAP	A				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: [X] Attached, Document ID: PMTFS1.bmp [ ] Not Applicable [ ] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID: PMTFS_2.bmp [ ] Not Applicable [ ] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID: PMTFS_3.bmp [ ] Not Applicable [ ] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [X] Attached, Document ID: PMTFS-4.doc [ ] Not Applicable [ ] Waiver Requested
5. Fugitive Emissions Identification: [X] Attached, Document ID: PMTFS-5.doc [ ] Not Applicable [ ] Waiver Requested
6. Supplemental Information for Construction Permit Application: [ ] Attached, Document ID:_____ [X] Not Applicable
7. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities:
   [X] Attached, Document ID: PMTFS-8.doc [ ] Not Applicable

9. List of Equipment/Activities Regulated under Title VI:
   [ ] Attached, Document ID: _____
   [X] Equipment/Activities On site but Not Required to be Individually Listed
   [ ] Not Applicable

10. Alternative Methods of Operation:
    [ ] Attached, Document ID:_____[X] Not Applicable

11. Alternative Modes of Operation (Emissions Trading):
    [ ] Attached, Document ID:_____ [X] Not Applicable

12. Identification of Additional Applicable Requirements:
    [ ] Attached, Document ID: _____ [X] Not Applicable

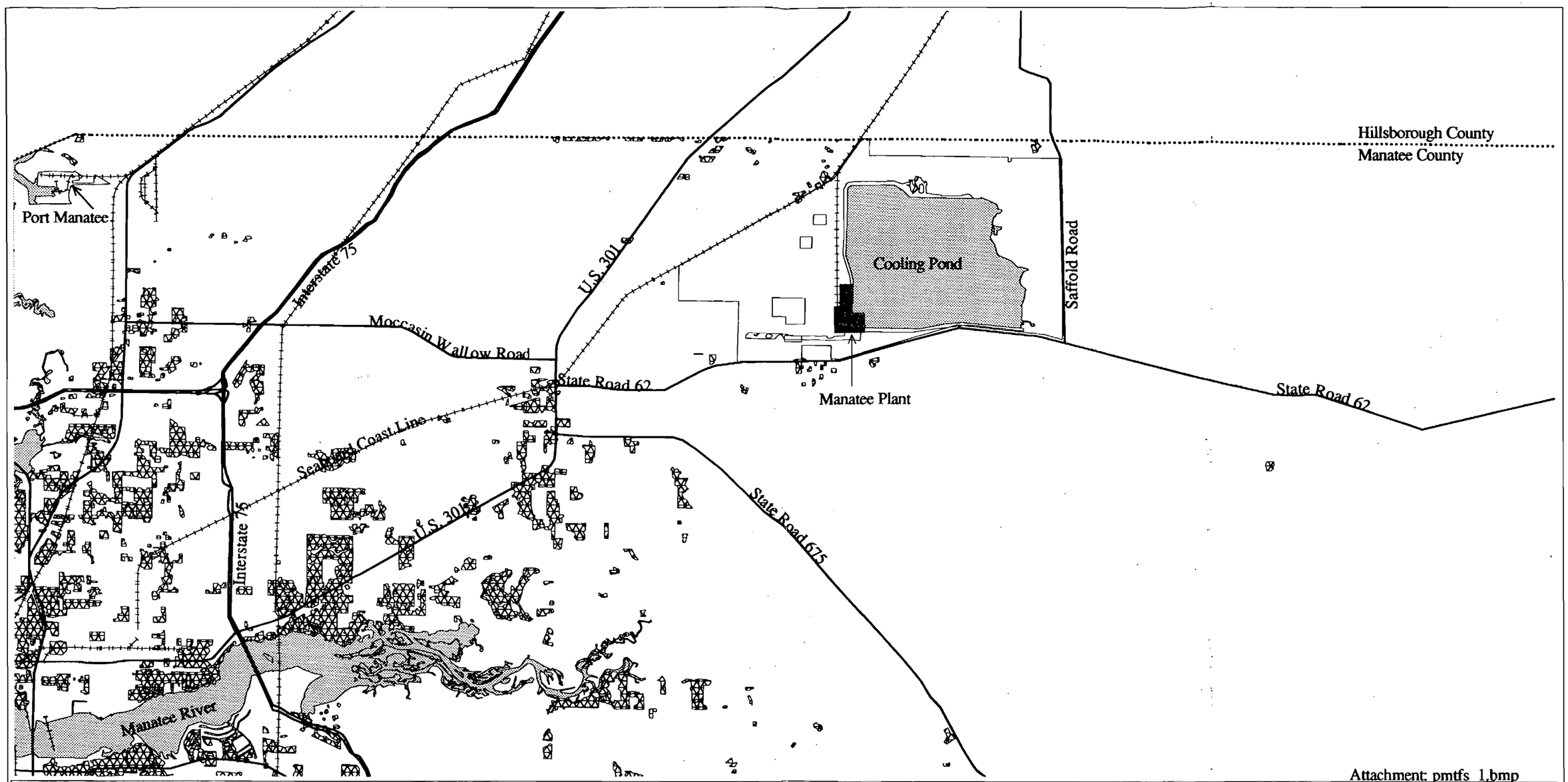
13. Risk Management Plan Verification:
    [ ] Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID:_____) or previously submitted to DEP (Date and DEP Office:_____)
    [ ] Plan to be submitted to CEPPO (Date required:_____)
    [X] Not Applicable

14. Compliance Report and Plan:
    [X] Attached, Document ID: PMTFS-14.doc [ ] Not Applicable

15. Compliance Certification (Hard-copy Required):
    [X] Attached, Document ID: PMTFS-15.doc [ ] Not Applicable

ATTACHMENT PMTFS_1

PLANT AREA MAP



Attachment: pmtfs_1.bmp

Manatee Plant Area Map
Manatee County

Source: Landuse data provided by Southwest Florida 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 10km
0mi 1mi 2mi 3mi 4mi 5mi 6mi

N W E S

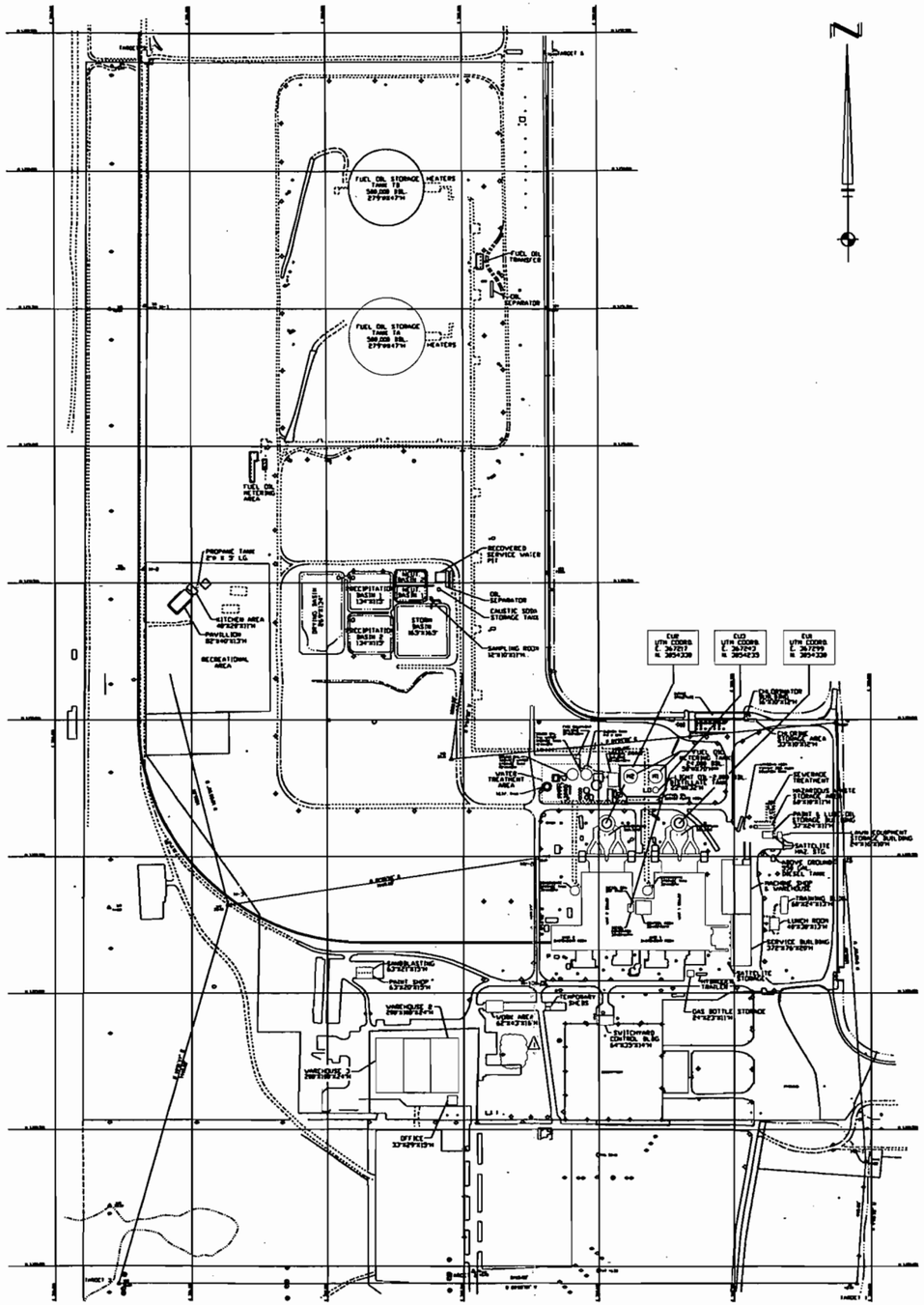
- Manatee Plant
- Water
- Residential Areas
- Major Roads
- Railroads

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

ATTACHMENT PMTFS_2

FACILITY PLOT PLAN

ATTACHMENT: PMTFS_2.bmp



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

REV	DATE	REVISION DESCRIPTION	ELV PWR BY	PWR CH	CSP COR	MM CSP APR	PMT CTS ORG
1	6-19-03	REVISED FOR TITLE V PERMIT					
0	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM: YY	DISCIPLINE: N/A	PLANT/UNIT: MANATEE PLANT-UNIT 1 & 2	DWR CODE
SCALE: 1=100	CAD FILE NAME: MTD12593	TITLE: FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V	
DRAWING SIZE: E(30"X42")	FPL ARCHIVE NAME: MTD12593		
DRAWING NUMBER: PMT1-M0038-YY		SHEET: 1 OF 1	REV: 1

FPCSTM/FPGBDR-E 5/93

ATTACHMENT PMTFS_3

PROCESS FLOW DIAGRAM

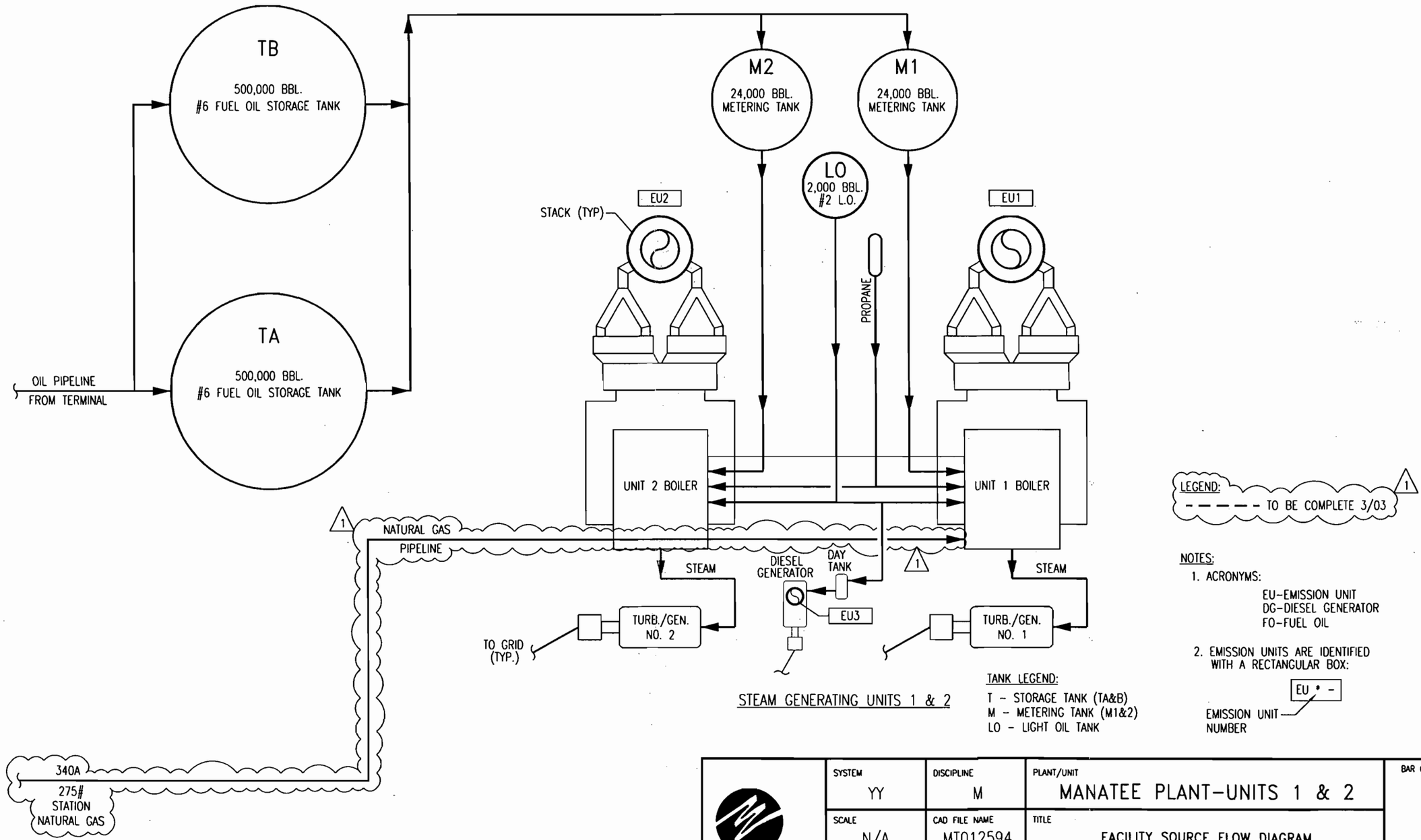
ATTACHMENT: PMTFS_3.bmp

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

LEGEND:
1
- - - - - TO BE COMPLETE 3/03

NOTES:
1. ACRONYMS:
   EU-EMISSION UNIT
   DG-DIESEL GENERATOR
   FO-FUEL OIL
2. EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:
   EU * -
   EMISSION UNIT NUMBER

TANK LEGEND:
T - STORAGE TANK (TA&B)
M - METERING TANK (M1&2)
LO - LIGHT OIL TANK

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
1	4-14-03	REVISED FOR TITLE V PERMIT	ELV			MM	PMT
0	8/15/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
YY	M	MANATEE PLANT-UNITS 1 & 2	
SCALE: N/A	CAD FILE NAME: MT012594	TITLE: FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 TITLE V	
DRAWING SIZE: B(11"X17")	FPL ARCHIVE NAME: MT012594		
DRAWING NUMBER: PMT1-M0103-YY		SHEET: 1 OF 1	REV: 1

GSYM/FPGBDR-B 5/93

ATTACHMENT PMTFS_4

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Attachment PMTFS_4.doc
Precautions to Prevent Emissions of Unconfined Particulate Matter

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

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

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

- Paving of primary roads, primary 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.:

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 concrete block buildings until they are used. Spills of powdered chemical products are cleaned up as soon as practical.

ATTACHMENT PMTFS_5

FUGITIVE EMISSIONS IDENTIFICATION

Attachment PMTFS_5.doc
Fugitive Emission Identification

There are two pollutants for which fugitive emissions sections have been completed - those being particulates and volatile organic compounds. The fugitive particulate emissions are comprised of fugitive dust from unpaved roads. The fugitive VOC emissions are comprised of several sources at the plant site, including tank emissions, painting, aerosol can useage, etc..

It should be noted that many fugitive emissions at the plant site have been classified as *"insignificant activities"*, and therefore are not included here. For example, VOC emissions from leaks in the lube oil systems at the facility would be considered fugitive emissions, but have been proposed to be exempted as insignificant, and so appear as such on the ***Insignificant Activities*** list (Attachment PMTFS_8.doc).

Criteria and Precursor Air Pollutants
Fugitive particulate emissions are addressed in Attachment PMTFS_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
The fugitive HAPs emissions at the Manatee facility have been calculated to be less than the relevent reporting thresholds and are therefore not included here. Many other sources are very minor and are included in the Facility section of this application. Please refer to the Insignificant Activities List (Attachment PMTFS_8.doc).

ATTACHMENT PMTFS_8

LIST OF PROPOSED EXEMPT AND INSIGNIFICANT ACTIVITIES

List of Proposed Exempt and Insignificant Activities

Following are several pages of proposed exempt activities for the facility. Similar information was presented in the initial Title V application. These are presented in tabular format with the following headings:

Equipment/System - In this column the location of the source is given (e.g. fuel oil system, water treatment system, etc.).

Size/Source - This column presents the size and quantity of the vent or emission release point(s).

Type of Emissions - This column presents the variety of pollutant or other substance emitted from the emission equipment/system.

Rationale - This column presents the reason that the emission source is proposed to be exempted.

The following is a brief description of emission units and/or activities considered insignificant activities in the current Title V Permit.

- Spent boiler chemical cleaning liquid evaporation;
- Propane relief valves;
- Hydrazine mixing tank on relief valves;
- Fuel oil storage tanks and related equipment;
- Lube oil tank vents and extraction vents;
- Oil/water separators and related equipment; and
- Miscellaneous mobile vehicle operation (cars, light trucks, heavy-duty trucks, backhoes, tractors, forklifts, cranes, etc).

ATTACHMENT FS-8
MANATEE PLANT
PROPOSED EXEMPT ACTIVITIES

{PRIVATE }UNITS 1 & 2 BOILER/STEAM GENERATOR POWER BLOCK			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Main Steam - Hot & Cold	¾" Vents to Atmosphere (Maintenance)	Steam	Steam not a pollutant
	6" Pressure Relief Valves		
Extraction Steam	Vents to Atmosphere (Maintenance)	Steam	Steam not a pollutant
Auxiliary Steam Chemical Feed Chlorine & Gas Purging Systems	Waterbox Vacuum Pump Pressure Relief Valve 2½" (Safety)	Water Vapor	Air/Water Spray not a Pollutant
	Waterbox Vacuum Silencer Separator Vent		
	12" Steam Air Ejector Exhaust		
	Air Leakage Rotameter Vent		
	3" After Condenser Vent		
	4" Condenser P.D.I. Vent		
	2" Condenser Relief Valve (Safety)		
	2½" Generator Vent (Maintenance)		H_2, CO_2, and Air Non-Regulated Substances
	¾" Hydrogen Detector Cabinet Vent	Hydrogen Vapors	H_2 Non-Regulated Substance
	Hydrogen Supply Vent to Atmosphere		
	¾" Nitrogen Relief Valve	Nitrogen Vapors	N_1 Non-Regulated Substance
	Nitrogen Purge System		

UNITS 1 & 2 BOILER/STEAM GENERATOR POWER BLOCK			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Auxiliary Steam Chemical Feed Chlorine & Gas Purging Systems (Continued)	CO_2 Relief Valve (Safety)	Safety	CO_2 Non-Regulated Substance
	Auxiliary Steam Relief Valves (Safety)	Steam	Steam not a pollutant
Boiler Feedwater	Maintenance Vents to Atmosphere	Water	H_20 not a Pollutant
	3" B.F.P. Seal Drain Tank Vent (Continuous)		
Condensate	Maintenance Vents to Atmosphere	Water Vapor	H_20 not a Pollutant
	1" Relief Valves		
	Condensate Storage Tanks Vent (400,000 Gallons)		
Continuous Emission Monitors	C.E.M. Cal. Gases	NOx, SO2	Insignficant Leakage
Turbine Gland Seal Steam & Drain Piping	Gland Steam Condenser Exhauster 6" Vent to Atmosphere	Steam	Steam not a pollutant
Closed Cooling Water System	Maintenance Vents to Atmosphere	Water	H_20 not a Pollutant
	Cooling Water Heat Exchangers Relief Valve (Safety)		

UNITS 1 & 2 BOILER/STEAM GENERATOR POWER BLOCK			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Caustic Wash Lime Slurry, Ash Disposal & Reinjection	Steam Relief Valves (Safety)	Steam	Steam not a pollutant
	Condensate Relief Valves (Safety)	Water Vapor	H_20 not a Pollutant
	Ash Pit	Water, Boiler Chemicals	Non-regulated pollutants
Boiler Vents & Drains	Maintenance Vents to Atmosphere	Water Vapor	H_20 not a Pollutant
	Condensate Recovery Flash Tank Relief Valve 4" (Safety)		
	Condensate Recovery Tank Vents 4"		
	Vent Condenser		
	Blowdown Tank Vent - 22"	Steam	Steam not a pollutant
	Condensate Recovery Drain Cooler	Water Vapor	H_20 not a Pollutant
Fuel Oil	Blowback Tank Relief Valve - 1"	Air	Air not a Pollutant
	Steam Supply Relief Valve	Steam	Steam not a Pollutant
	Fuel Oil Storage Tanks Vents 500,000 BBL	V.O.C. (Fuel Oil Vapors)	Insignificant VOC emissions (#6 oil has low % volatiles, and #2 oil is small qty)
	Fuel Oil Metering Tanks 6" Vents 24,000 BBL		
	Light Oil Distillate Tank 6" Vent 2,000 BBL		
	Diesel Generator Day Tank 1½" Vent - 500 Gal.		

UNITS 1 & 2 BOILER/STEAM GENERATOR POWER BLOCK			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Fuel Oil (Continued)			
	Misc. Fuel Oil Maintenance Vents to Atmosphere	V.O.C. (Fuel Oil Vapors)	
	Fuel Oil Metering Area Relief Valves	V.O.C. (Fuel Oil Vapors)	#6 oil extremely low % volatiles
Instrument Air	Water Separator Relief Valve	Air	Air not a Pollutant
	Receiver Relief Valve		
	Air Dryer Relief Valve		
Service Air	Receiver Relief Valve	Air	Air not a Pollutant
	Compressor Relief Valve		
Turbine Generator Lube Oil System	Batch Tank 4" Vent w/Filter	Lube Oil Vapors	Lube oil has low % volatiles
	Lube Oil Reservoir Vapor Educator Vent - 2"		
	Lube Oil Conditioner Vapor Extractor Vent - 4"		
	Demister Vent		
	Lube Oil Conditioner Skid Filter Vents to Atmosphere		
B.F.P. Lube Oil			
	B.F.P. Lube Oil Batch Tank 4" Vent		
	B.F.P. Lube Oil Condition Vent Fan - 4"		

UNITS 1 & 2 BOILER/STEAM GENERATOR POWER BLOCK			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Control Building	Battery Room Exhaust Fans	Air	Air not a pollutant
	Bathroom Exhaust Fans		
	Elevator Shaft Exhaust Fan	Air, lab chemical fumes	No regulated pollutants emitted
	M.C.C. Areas Exhaust Fans		
	Lab Exhaust Hoods		
Circulating & Intake Cooling Water	Cooling Pond	water vapor	No regulated pollutants emitted
Boiler Blowdown	Blowdown Lift Station	Water Vapor	No regulated pollutants emitted
	1" Vent to Atmosphere		H_2O not a Pollutant
	2" Air Release & Vacuum Valve	Air	Air not a Pollutant
	Blowdown Sump Pit	Water Vapor	No regulated pollutants emitted

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Waste Water	Drying Basin	water vapor, sodium hydroxide fumes, VOC	Insignificant qties of pollutants emitted (only from vents and sumps)
	Precip. Basins (2)		
	Storm Water Basin		
	Neutralization Basins		
	Recovered Service Water Sump Pit		
	Storm Water Basin Oil Separator		
	Neutralization Basins Sump Pit		
	Ash Basin recir. Water Sump Pit		
	Caustic Storage Tank		
	Waste Caustic Sump Pit		
	Oil Separator Sump Pit		
	Reactivator Sump Pit		
	Waste Acid Sump Pit		
Raw Water	Raw Water Storage Tanks vent (500,000 Gallons)	Water	H_2O not a Pollutant
	4" Well Water Pump Casing Vent		
	4" Vent to Atmosphere		

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Service Water	Treated Water Storage Tank Vent 6" (500,000 Gallons)	Water	H_2O not a Pollutant
	Maintenance Vents to Atmosphere		
Potable Water	4" Potable Water Storage Tanks Vent		
	5" Potable Water Well & Pump Casing Vent		
Water Treatment	Bleach Tank Vent		

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Miscellaneous Buildings Vent/Exhaust Systems	Lunchroom Building Exhaust Fans	Air, VOC, PM	Insignificant qties of pollutants emitted
	Paint & Lube Oil Storage Building Exhaust Fan		
	Bleach Building Roof Exhaust Fan		
	Switch yard Control Building Exhaust Fan		
	Warehouse Exhaust Fans		
	Chemical Storage Building Exhaust Fans		
	Fire Equipment Vents		
	Diesel Generator Building Vents		
Miscellaneous Buildings Sanitary Vents/Stacks	Service Bldg. Control Bldg. Recreational Pavilion	Toilet Vapors	No regulated pollutants emitted
Miscellaneous Buildings H.V.A.C. (Cooling/Heating)	C.E.M. Bldgs. Service Bldg. Lunch Room Lab Switch Yard Control Bldg. Relay room Control Room Warehouse Office Recreation Pavilion Battery room	Air	Air not a pollutant
Recreational Pavilion	L.P. Gas Tank	Methane Vapors	Insignificant levels of emissions
Sewage Treatment Facility	Open to Atmosphere	Sewage Vapors	No regulated pollutants emitted

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Service/Warehouse Building Vent/Exhaust Systems	Roof Mounted Exhaust Fans Locker Room Exhaust Fan Tool Room Exhaust Fan Machine Shop Exhaust Fan Laundry Exhaust Fan	Air	Air not a pollutant
	Solvent Degreaser Tank		Insignificant emissions of VOC
	Sand Blasting Unit	Air, Blasting Dust	Sandblasting is performed in an enclosed area.
Miscellaneous Vent/Exhaust from Kitchens	Control Room Service Bldg. Recreation Pavilion	Air, Kitchen Vapors	No regulated pollutants emitted
Storm Water Basins	Retention Area	Water Vapor	No regulated pollutants emitted

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Unpaved Areas	Limited Vehicular Traffic	Fugitive Dust (PM)	
Bulk Gas Storage	Hydrogen Nitrogen CO_2 Acetylene Oxygen Argon	Various Gas Vapors	No regulated pollutants emitted
Waste Accumulation	55 Gal. Drum Storage Area	Paints, Oils & Various Vapors	Containers are kept closed except to add waste products
Fire Protection	Control Bldg. Halon Cylinders	Halon Vapors	Exempted by Rule 62-210.300(a)21.
Miscellaneous Activities	Plant Grounds Maintenance	Fugitive Dust	Insignificant levels of PM emitted
	Routine Maintenance/Repair Activities	Air, Various Vapors	Insignificant levels of VOC emitted
	Non-Halogenated Solvent Cleaning Operators	Vapors	Insignificant levels of VOC emitted
	Internal Combustion Engines which Drive Compressors, Generators, Water Pumps or Other Auxiliary Equipment	Propane, Gasoline or diesel Fuel Combustion Products	Exempted by Rule 62-210.300(a)20.
	Transformers, Switches and Switchgear, Processing & Venting	Air	No regulated pollutants emitted

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Miscellaneous Activities (Continued)	Electrically Heated Equipment Used for Heat Treating, Tracing, Drying, Soaking, Case Hardening or Surface Conditioning	Air	No regulated pollutants emitted
	Air Compressors and Centrifuges Used for Compressing Air	Air	No regulated pollutants emitted
	Storage of Product in Sealed Containers	Various	Containers kept closed
	Maintenance/Painting Activities	V.O.C.'s	Coatings applied are less than 6 gpd annual average
Miscellaneous Mobile Vehicle Operation	Cars, Light Trucks, Heavy Duty Trucks, Back Hoes, Tractors, Forklifts, Cranes, Etc.	Combustion Emissions	Exempted by D.E.P. Rule FDEP 62-210.300(3)(a)5
Miscellaneous Mobile Equipment Operation	Compressors, Chain Saws, Small Generators, (<100kw Welding Machines, Electric Saws & Drills, Etc.	Combustion Emissions	Exempted by D.E.P. Rule 62-210.300(3)(a)20.
Miscellaneous Mobile Emergency Diesel Equipment	500 kw Detroit Diesel Generator Enclosed in Trailer	Diesel Combustion Vapors	Exempted by D.E.P. Rule 62-210.300(3)(a)20.
Home Heating and comfort heating with a gross maximum heat output of less than one million Btu/hour.	Various`	Air	Exempted by Rule 62-210.300(3)(a)4.

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Internal combustion engines in boats, aircraft and vehicles used for transportation of passengers or freight.	Various	V.O.C.'s exhaust emissions	Exempted by Rule 62-210.300(3)(a)20. F.A.C.
Vacuum pumps used in laboratory operations.	Various	Air	Exempted by Rule 62-210.300(3)(a)9. F.A.C.
Equipment used for steam cleaning	Various	Air, steam	Exempted by Rule 62-210.300(3)(a)10. F.A.C.
Belt or drum sanders having a total sanding surface of five square feet or less and other equipment used exclusively on wood or plastics or their products having a density of 20 pounds per cubic foot or more.	Various	Air, particulates	Exempted by Rule 62-210.300(3)(a)11. F.A.C.
Equipment used exclusively for space heating, other than boilers.	Various	Air	Exempted by Rule 62-210.300(3)(a)12. F.A.C.
Laboratory equipment used exclusively for chemical or physical analysis	Various	Various	Exempted by Rule 62-210.300(3)(a)15. F.A.C
Brazing, soldering or welding equipment	Various	Metal fumes, particulate	Exempted by Rule 62-210.300(3)(a)16. F.A.C

GENERAL SITE			
Equipment/System	**Size/Source**	**Type of Emission**	**Rationale**
Laundry dryers, extractors, or tumblers for fabrics cleaned with only water solutions of bleach or detergents	Various	Air	Exempted by Rule 62-210.300(3)(a)17. F.A.C
Fire & Safety Equipment	Various	CO_2, Halon, Dry Chemical	Exempted by Rule 62-210.300(3)21. F.A.C
Surface coating facilities in ozone attainment areas (provided that 6.0 gallons of coatings per day are applied)	Various	V.O.C.'s	Exempted by Rule 62-210.300(3)(a)22. F.A.C
Degreasing units using heavier-than-air vapors exclusively, except any such unit using or emitting any substance classified as hazardous air pollutant	Various	V.O.C.'s	Exempted by Rule 62-210.300(3)(a)24. F.A.C

ATTACHMENT PMTFS_14

COMPLIANCE REPORT AND PLAN
(SEE ATTACHMENT PMTFS_15)

ATTACHMENT PMTFS_15

COMPLIANCE CERTIFICATION

PMT FS_14.doc.

Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

REASON FOR SUBMISSION (Check one to indicate why this statement of compliance is being submitted)

☒ **Annual Requirement (Partial)**	☐ **Transfer of Permit**	☐ **Permanent Facility Shutdown**

REPORTING PERIOD*	REPORT DEADLINE**
January 1 through **March 10** of **2003** (year)	**July 1, 2003**

*The statement of compliance must cover all conditions that were in effect during the indicated reporting period, including any conditions that were added, deleted, or changed through permit revision.

**See Rule 62-213.440(3)(a)2., F.A.C.

Facility Owner/Company Name: **FLORIDA POWER & LIGHT COMPANY**

Site Name: **MANATEE PLANT** Facility ID No. **0810010-001-AV** County: **MANATEE**

COMPLIANCE STATEMENT (Check only one of the following three options)

____ **A.** This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, and there were no reportable incidents of deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above.

__X__ **B.** This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part; however, there were one or more reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each incident of deviation, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.*
2. Description of the incident.*

*** SEE ATTACHMENTS**

____ **C.** This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, EXCEPT those identified in the pages attached to this report and any reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each item of noncompliance, the following information is included:

1. Emissions unit identification number.
2. Specific permit condition number (note whether the permit condition has been added, deleted, or changed during certification period).
3. Description of the requirement of the permit condition.
4. Basis for the determination of noncompliance (for monitored parameters, indicate whether monitoring was continuous, i.e., recorded at least every 15 minutes, or intermittent).
5. Beginning and ending dates of periods of noncompliance.
6. Identification of the probable cause of noncompliance and description of corrective action or preventative measures implemented.
7. Dates of any reports previously submitted identifying this incident of noncompliance.

For each incident of deviation, as described in paragraph **B.** above, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.

Paul Plotkin 3/10/03

(Signature of Title V Source Responsible Official) *(Date)*

Name: **Paul Plotkin** Title: **Plant General Manager**

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

I, the undersigned, am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Nancy M Kierspe 4-7-03

(Signature of Acid Rain Source Designated Representative) *(Date)*

Name: **Nancy M. Kierspe** Title: **Designated Representative**

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency(EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] 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).

[ ] 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.

[ ] 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.

2. Regulated or Unregulated Emissions Unit? (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 an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Unit #1 Steam Generator

4. Emissions Unit Identification Number: 001
ID: [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: A	6. Initial Startup Date: 10/13/76	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [Y]

9. Emissions Unit Comment: (Limit to 500 Characters) The generator nameplate rating given on page 13 is reflective of the information provided to the Florida Public Service Commission (PSC) in the 10-Year Site Plan. Actual generator output may exceed the value given, or may vary seasonally, with changes in unit efficiency, or fluctuations in system load demand.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

A. Multiple cyclone w/Fly Ash Reinjection
B. Flue Gas Recirculation
C. Staged Combustion (includes overfire air, and burners out of service)

2. Control Device or Method Code(s):
   A. 077
   B. 026
   C. 025

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW 863	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	8650 / 5670	mmBtu/hr	
2. Maximum Incineration Rate:	lb/hr		tons/day
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		8760 hours/year

6. Operating Capacity/Schedule Comment (limit to 200 characters): The heat input rate of 8650 mmbtu/hr is for residual oil firing; the heat input rate of 5670 mmbtu/hr is for natural gas firing.

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

SEE PMTEU1_C	

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU1	2. Emission Point Type Code: 1

3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):
The EU-1 emission unit (Unit 1 fossil steam 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, Manatee Unit 1 boiler

5. Discharge Type Code: V	6. Stack Height: 499 feet	7. Exit Diameter: 26.2 feet
8. Exit Temperature: 324.6°F	9. Actual Volumetric Flow Rate: 2667409.9 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	

13. Emission Point UTM Coordinates:
Zone: 17 East (km): 367.25 North (km): 3054.15

14. Emission Point Comment (limit to 200 characters):
Information provided in items #8 and #9 reflects the highest recorded data submitted with the original Title V Application. Flow rates vary with load and operating conditions.

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler firing residual fuel oil		
2. Source Classification Code (SCC): 1-01-004-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 56.9	5. Maximum Annual Rate: 498513	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 1	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 6

1. Segment Description (Process/Fuel Type) (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: 8.65	5. Maximum Annual Rate: 865	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment (limit to 200 characters): This unit is currently permitted to burn a variable combination of #6 oil, natural gas, #2 oil, propane, or on-spec. used oil from FPL operations. Propane is primarily used for lighting off the boiler for start-up.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler firing #2 diesel oil		
2. Source Classification Code (SCC): 1-01-005-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 63.603	5. Maximum Annual Rate: 557162.3	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 4 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler firing on-specification used oil		
2. Source Classification Code (SCC): 1-01-013-02	3. SCC Units: Thousand gallons burned	
3. Maximum Hourly Rate: 0.5	4. Maximum Annual Rate: 40	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 1	8. Maximum % Ash:	9. Million Btu per SCC Unit: 143
10. Segment Comment (limit to 200 characters): Units 1 and 2 limited to 40,000 gallons in any consecutive 12-month period.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 5 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler chemical cleaning waste evaporation. This process may be undertaken while firing #6 fuel oil or natural gas.		
2. Source Classification Code (SCC): 1-01-013-01	3. SCC Units: Thousand gallons burned	
3. Maximum Hourly Rate: 3	4. Maximum Annual Rate: 500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Items 6,7,8, and 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).		

Segment Description and Rate: Segment 6 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler firing natural gas.		
1. Source Classification Code (SCC): 1-01-006-01	2. SCC Units: Million cubic feet	
3. Maximum Hourly Rate: 5.45	5. Maximum Annual Rate: 47,759	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,040
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO_2	N/A	N/A	EL
NO_x	026	025	EL
CO	N/A	N/A	NS
PM	077	N/A	EL
PM_{10}	077	N/A	NS
VOC	N/A	N/A	NS
H133	N/A	N/A	NS
H106	N/A	N/A	NS
H107	N/A	N/A	NS
SAM	N/A	N/A	NS
HAP	N/A	N/A	NS

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SO_2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 9515 lb/hour 41675.7 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 1.1 Reference: DEP Rule 62-297.405(1)(c)1.g.	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 1.1 lb/mmbtu*8650mmbtu/hr=9515.0 lb/hr (9515.0 lb/hr*8760 hr/yr)/2000 lb/ton = 41675.7 tons/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: Emissions limit required by rule	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.1 lb/mmbtu	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Fuel sampling & analysis	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 1.1 lb/mmbtu is the current regulatory limit on SO_2 emissions [Rule 62-296.405(1)(c)1.g.]. Equivalent allowable emissions are given for liquid fuel firing.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: NO_x	2. Total Percent Efficiency of Control:
3. Potential Emissions: 2595 lb/hour 11366.1 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.3 Reference: DEP Rule 62-296.405(1)(d)2.	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.3 lb/mmbtu*8650mmbtu/hr = 2595 lb/hr (2595 lb/hr*8760 hr/yr)/2000 lb/ton = 11366.1 tons/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

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 lb/mmbtu	4. Equivalent Allowable Emissions: 2595 lb/hour 11366.1 tons/year
5. Method of Compliance (limit to 60 characters): Continuous Emissions Monitoring	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 0.3 lb/mmbtu is the current permit limit on nitrogen oxide emissions [30-day rolling average].	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.Pollutant Emitted: Particulate Matter - Total	2. Total Percent Efficiency of Control:
3. Potential Emissions: 1081.25 lb/hour 4735.9 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.125 lb/mmbtu Reference: DEP Rule 62-296.405(1)(b) and Rule 62-210.700(3)	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.125 lb/mmbtu*8650mmbtu/hr = 1081.25 lb/hr (1081.25 lb/hr*8760 hr/yr)/2000 lb/ton = 4735.9 tons/yr (Note that 3 hrs @ 0.3 lb/mmbtu & 21 hrs @ 0.1 lb/mmbtu = average 0.125 lb/mmbtu)	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): 0.1 lb/mmbtu represents steady-state conditions. 0.3 lb/mmbtu is the emission limit for sootblowing and load changing conditions in the existing permit for up to 3 hours in 24 hours.	

Allowable Emissions Allowable Emissions 1 of 2

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 lb/mmbtu	4. Equivalent Allowable Emissions: 865 lb/hour 3315.11 tons/year
5. Method of Compliance (limit to 60 characters): DEP Rule 62-296.405(1)(e)2.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 0.1 lb/mmbtu is the current regulatory limit on PM emissions for 21 hours in 24 hours [Rule 62-296.405(1)(b)]. Equivalent allowable emissions are given for liquid fuel firing.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: Particulate Matter - Total	2. Total Percent Efficiency of Control:
3. Potential Emissions: 1081.25 lb/hour 4735.9 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.125 lb/mmbtu Reference: DEP Rule 62-296.405(1)(b) and Rule 62-210.700(3)	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.125 lb/mmbtu*8650mmbtu/h r= 1081.25 lb/hr (1081.25 lb/hr*8760 hr/yr)/2000 lb/ton = 4735.9 tons/yr (Note that 3 hrs @ 0.3 lb/mmbtu & 21 hrs @ 0.1 lb/mmbtu = average 0.125 lb/mmbtu)	
10. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): 0.1 lb/mmbtu represents steady-state conditions. 0.3 lb/mmbtu is the emission limit for sootblowing and load changing conditions in the existing permit for up to 3 hours in 24 hours.	

Allowable Emissions Allowable Emissions 2 of 2

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 lb/mmbtu	4. Equivalent Allowable Emissions: 2595 lb/hour 1420.8 tons/year
5. Method of Compliance (limit to 60 characters): DEP Rule 62-296.405(1)(e)2.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Data is for sootblowing liquid fuel. Equivalent allowable emissions are for liquid fuel firing. 0.3 lb/mmbtu is the current regulatory limit on PM for a max. of 3 hours in 24 hours.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 3

1. Visible Emissions Subtype: VE 40	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 40 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: 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.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: VE 60	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 60 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 24 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Rule 62-210.700(3), F.A.C. limits sootblowing & load changing to 60% opacity for up to 3hrs/24hrs with less than four 6-minute periods of up to 100% opacity if unit has an operational CEM.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 3 of 3

1. Visible Emissions Subtype: VE 100	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: 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 start-up and shutdown, and up to 2hrs/24hrs for malfunctions.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 4

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 42 Serial Number: 42-45533-274K	
5. Installation Date: 02/07/94	6. Performance Specification Test Date: 11/09/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(2). This existing monitor is scheduled to be replaced during May 2003.	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: PMTEU1_.bmp [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID:PMTEU1_2.doc [ ] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [X] Attached, Document ID: PMTEU1_3.doc [ ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [X] Previously submitted, Date: 07/16/02 [ ] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: PMTEU1_6.doc [ ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment: Description of stack sampling facilities: Manatee Unit 1 has stack sampling facilities meeting the requirements of Rule 62-297.310(6) F.A.C.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[X] Attached, Document ID: PMTEU1_11.doc [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____[X] Not Applicable

14. Compliance Assurance Monitoring Plan
[X] Attached, Document ID: PMTEU1_14.doc [ ] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[X] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID: PMTEU1_15.doc

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

ATTACHMENT PMTEU1_C

LIST OF APPLICABLE REQUIREMENTS

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.g. F.A.C. 62-296.405(1)(d)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. 62-296.700(2)(b) 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

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)

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

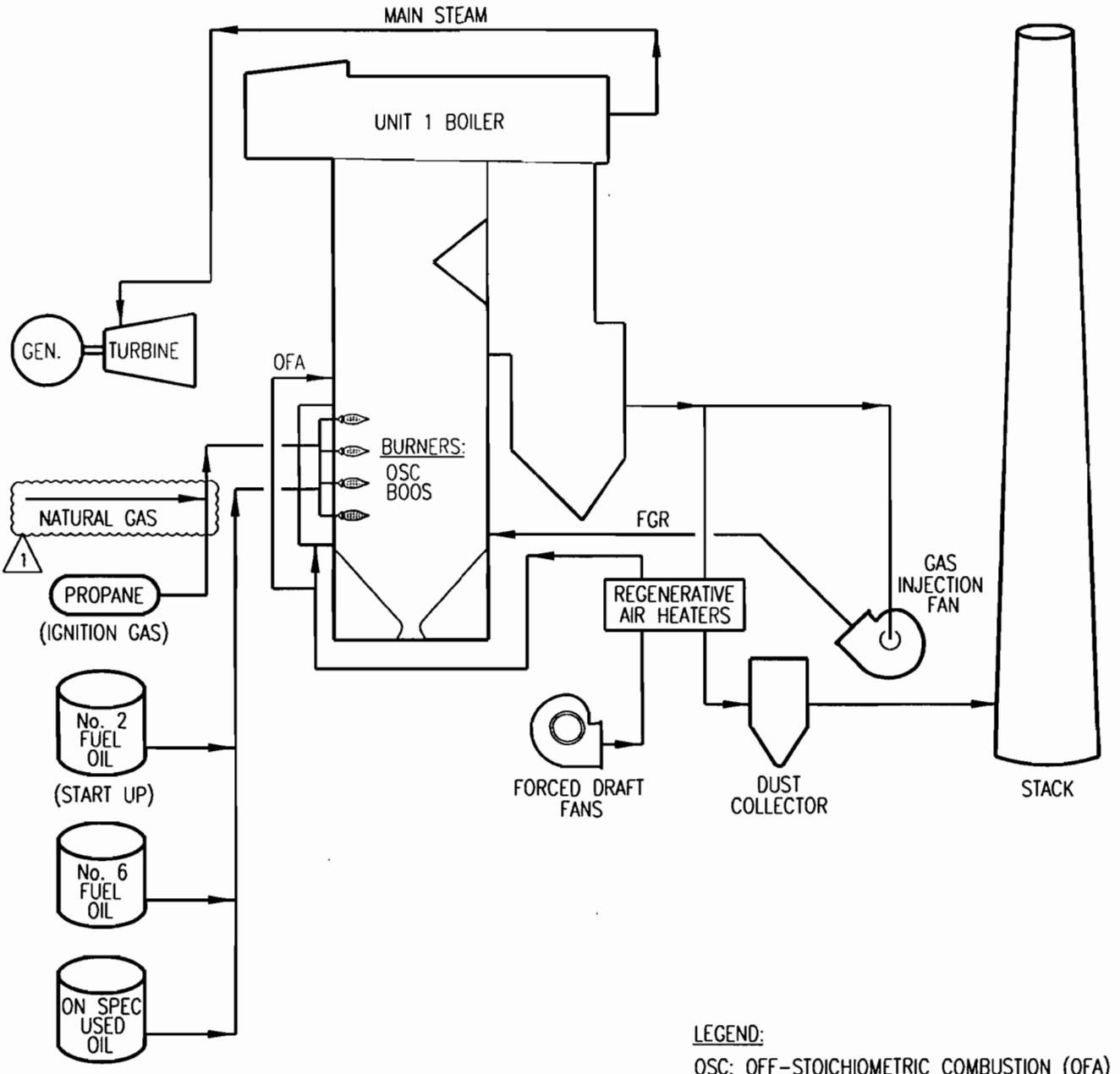
Information for Facility-Id : *1*

40 CFR 61.05 40 CFR 61.12(b) 40 CFR 61.145 40 CFR 61.148 40 CFR 61.150 40 CFR 61.19 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

ATTACHMENT PMTEU1

PROCESS FLOW DIAGRAM

ATTACHMENT: PMTEU1_1.bmp



PERMITTED FUEL OPTIONS

LEGEND:

OSC: OFF-STOICHIOMETRIC COMBUSTION (OFA)
BOOS: BURNERS OUT OF SERVICE
FGR: FLUE GAS RECIRCULATION
OFA: OVER FIRE AIR

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
1	4/24/03	REVISED & ADDED NATURAL GAS FOR TITLE V PERMIT	ELV			KTW	PMT
0	8/4/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	MANATEE PLANT
SCALE: N/A	CAD FILE NAME: MT012595	TITLE: EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU1
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: MT012595	

DRAWING NUMBER: PMT1-M0104-YY

SHEET: 1 OF 1 | REV: 1

FPCSYM/FPCBOR-A 9/90

ATTACHMENT PMTEU1_2

FUEL ANALYSIS OR SPECIFICATION

Attachment PMTEU1_2.doc

Fuel Analysis
Natural Gas Analysis (typical)[2]

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

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

(1) Data from laboratory analysis

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

Attachment PMTEU1_2.doc

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	1.0	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.

Attachment PMTEU1_2.doc

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 PMTEU1_2.doc

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 PMTEU1_2.doc

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 for used oil follows:

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 PMTEU1_3

DETAILED DESCRIPTION OF CONTROL EQUIPMENT

Attachment PMTEU1_3.doc
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

B. Flue Gas Recirculation - Nitrogen oxides reduction

Purpose
The boiler design incorporates the techniques of flame temperature reduction and off-stoichiometric combustion designed to reduce and maintain the nitrogen oxides stack gas emissions below the boiler manufacturer's guaranteed maximum levels and below that maximum allowed by pollution control agencies.

The gas injection control system regulates the gas injection fan speeds and the associated dampers to control the amount of recirculated gas that will be mixed with the air flow to the boiler. By mixing recirculated gas with the air, the flame helps to reduce the formation of NO_x. The gas injection control loop has two subloops; gas injection fan speed control and gas injection fan interlocks.

Gas Injection Fan Speed Control
The gas injection fan speeds are individually regulated to provide the proper amount of fuel gas injection into the boiler's air supply. There are two gas injection fans each providing injection to the discharge of one of the air preheaters. Steam flow (a load index) developed from first stage pressure is used to develop a base demand for gas injection from each fan. The gas injection for each fan can be biased as required for balanced operation. Also, each demand is limited according to the air flow to which the flue gas will be mixed. Thus, if a forced draft (FD) fan is removed from service or operating at a reduced load, the high limit will prevent excessive flue gas from being mixed with the low air flow.

The demand for gas injection for each fan is compared to each fan's actual gas injection. Any error between demand and actual flue gas flow causes a proportional plus integral controller to readjust the associated fan's speed. To prevent erroneous control action from attempting to exceed the maximum fan load, a low select is employed. Fan amps are compared to the maximum allowable fan amps. When actual fan amps exceed the maximum allowable, the low select will choose the fan amp signal, and fan speed will be controlled to maintain the maximum load until the normal control requests a lower fan speed.

D. Flame Temperature Reduction

This approach utilizes two gas injection fans to recirculate the flue gases and mix these gases with the combustion air. The recirculated gases act as an inert, absorbing a part of the energy released in combustion and, thereby, reducing the peak temperatures achieved. Controlling and generally reducing the high temperature conditions that would otherwise occur significantly reduce the formation of nitric oxide.

E. Staged Combustion

This technique involves operating the burners at fuel-rich mixture ratios. The proportion of fuel burned at peak temperatures in the presence of excess air is reduced and consequently NO_x emissions are lowered. The remaining air required to maintain the overall furnace stoichiometry is introduced through overfire air ports located above the top row of burners.

A second way of operating the burners at a fuel-rich mixture ratio is to terminate the fuel flow to selected burners and utilize these burners as air ports. The other burners would be operated at a fuel-rich mixture ratio. This is called a bias-firing scheme.

ATTACHMENT PMTEU1_6

PROCEDURES FOR STARTUP/SHUTDOWN

Attachment PMTEU1_6.doc

Startup & Shutdown Procedures - Minimizing Excess Emissions

Startup of the fossil-fuel boilers begins when fuel 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 monitors are currently in place for NO_x 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
- recognition 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

Knowledge of the appropriate countermeasures to take under an excess emissions condition is a part of the routine operator training.

ATTACHMENT PMTEU1_11

ALTERNATIVE METHODS OF OPERATION

Conventional Fossil fuel-fired Boiler Units 1 and 2

Operation at Various Capacities

The two conventional fossil-fuel boilers at the Manatee plant site may be operated up to 8760 hours per year at heat input rates from zero to 100% of maximum.

Different Fuel Types and heat input rates

The units burn low sulfur fuel oil containing a maximum of 1.0% sulfur (by weight) or natural gas. The units' heat inputs are each 8,650 mmBtu/hr on fuel oil and 5670 mmbtu/hr on natural gas. The units may also burn on-specification used oil meeting EPA specifications under 40 CFR 266.40., propane, and natural gas.

Sootblowing/Auxiliary Equipment

The unit may blow soot for up to 24 hours per day, as long as this does not result in excess emissions. Other activities such as operation of the boilers' steam coils, boiler steam lances, air preheater, and dust collector wash equipment is undertaken as needed in order to maintain the boilers' cleanliness.

Utilization of Fuel Additives

Fuel additives, typically containing Magnesium compounds, may be added to the boiler through the fuel or other means. The dosage rate is based on the quantity of fuel burned and the amount of ash in the fuel.

Off-Stoichiometric Combustion

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

Flame Temperature Reduction

This approach utilizes two gas injection fans to recirculate the flue gases and mix these gases with the combustion air. The recirculated gases act as an inert, absorbing a part of the energy released in combustion and reducing the peak temperatures achieved. Controlling and generally reducing the high temperature conditions that would otherwise occur significantly reduces the formation of nitrogen oxide.

ATTACHMENT PMTEU1_14

COMPLIANCE ASSURANCE MONITORING PLAN

Attachment PMTEU1_14.doc

COMPLIANCE ASSURANCE MONITORING PLAN

Justification for the mechanical Dust Collectors installed within FPL's Fossil Steam Boilers to be excluded from the CAM rule

Based on the January 8, 1998 USEPA letter on Compliance Assurance Monitoring Rule Implementation Question and Answers, the mechanical Dust Collectors installed within FPL's Fossil Steam Boilers are excluded because:

- The mechanical Dust Collector is inherent process equipment contained entirely within the flue gas ductwork.
- The mechanical Dust Collector is a passive method of particle separation from the flue gas stream.
- The mechanical Dust Collector is a device to recover unburned carbon and ash from the flue gas stream.
- The mechanical Dust Collector has no moving parts, no control inputs, nor any controllable parameters.

Based on the characteristics above, the justification to exclude the mechanical Dust Collectors from the CAM rule is appropriate.

ATTACHMENT PMTEU1_15

ACID RAIN PART APPLICATION

Phase II Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72.30 and 72.31 and Chapter 62-214, F.A.C.

This submission is: ☐ New ■ Revised

STEP 1
Identify the source by plant name, State, and ORIS code from NADB

Plant Name **MANATEE Plant**	State **FL**	ORIS Code **6042**

STEP 2 Enter the unit ID# for each affected unit and indicate whether a unit is being repowered and the repowering plan being renewed by entering "yes" or "no" at column c. For new units, enter the requested information in columns d and e.

a	b	c	d	e
Unit ID#	Compliance Plan: Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	Repowering Plan	New Units: Commence Operation Date	New Units: Monitor Certification Deadline
PMT1	Yes	**NO**	**N/A**	**N/A**
PMT2	Yes	**NO**	**N/A**	**N/A**
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

STEP 3
Check the box if the response in column c of Step 2 is "Yes" for any unit

☐ For each unit that is being repowered, the Repowering Extension Plan form is included.

Plant Name (from Step 1)
MANATEE Plant

STEP 4
Read the standard requirements and certification, enter the name of the designated representative, and sign and date

Standard Requirements

Acid Rain Part Requirements.

(1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
(i) Submit a complete Acid Rain part application (including a compliance plan) under 40 CFR part 72 and Rules 62-214.320 and 330, F.A.C., in accordance with the deadlines specified in Rule 62-214.320, F.A.C.; and
(ii) Submit in a timely manner any supplemental information that the Department determines is necessary in order to review an Acid Rain part application and issue or deny an Acid Rain part;
(2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
(i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the Department; and
(ii) Have an Acid Rain Part.

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 62-214.420, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.

Sulfur Dioxide Requirements.

(1) The owners and operators of each source and each Acid Rain unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)) not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1)(i) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain part application, the Acid Rain part, or an exemption under 40 CFR 72.7, 72.8, or 72.14 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements. The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides.

Excess Emissions Requirements.

(1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
(2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall:
(i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and
(ii) Comply with the terms of an approved offset plan, as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the Department:
(i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Plant Name (from Step 1)
MANATEE Plant

Recordkeeping and Reporting Requirements (cont)

(iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.

(2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart I and 40 CFR part 75.

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR 72.7, 72.8 or 72.14, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_X averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR parts 72, 73, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities. No provision of the Acid Rain Program, an Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR 72.7, 72.8, or 72.14 shall be construed as:

(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided,* that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, or limiting such State regulation, including any prudence review requirements under such State law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name: Nancy Kierspe	
Signature Nancy Kierspe	4-7-03 Date

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[X] 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).

[ ] 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.

[ ] 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.

2. Regulated or Unregulated Emissions Unit? (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 an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Unit #1 Steam Generator

4. Emissions Unit Identification Number: 002 [ ] No ID
ID: [ ] ID Unknown

5. Emissions Unit Status Code: A	6. Initial Startup Date: 11/19/77	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [Y]

9. Emissions Unit Comment: (Limit to 500 Characters) The generator nameplate rating given on page 13 is reflective of the information provided to the Florida Public Service Commission (PSC) in the 10-Year Site Plan. Actual generator output may exceed the value given, may vary seasonally with changes in unit efficiency, or due to fluctuations in system load demand.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

A. Multiple cyclone w/Fly Ash Reinjection
B. Flue Gas Recirculation
C. Staged Combustion (includes overfire air and burners out of service)

2. Control Device or Method Code(s):
A. 077
B. 026
C. 025

Emissions Unit Details

1. Package Unit: Manufacturer:	Model Number:	
2. Generator Nameplate Rating:	MW 863	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	8650 / 5670	mmBtu/hr	
2. Maximum Incineration Rate:	lb/hr		tons/day
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year		8760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): The heat input rate of 8650 mmbtu/hr is for residual oil firing; the heat input rate of 5670 mmbtu/hr is for natural gas firing.			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

See PMTU1_C	

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU2	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): The EU-2 emission unit (Unit 2 fossil steam 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 2, Manatee Unit 2 boiler		
5. Discharge Type Code: V	6. Stack Height: 499 feet	7. Exit Diameter: 26.2 feet
8. Exit Temperature: 324.6°F	9. Actual Volumetric Flow Rate: 2667409.9 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 367.25 North (km): 3054.1		
15. Emission Point Comment (limit to 200 characters): Information provided in items #8 and #9 reflects the highest recorded data submitted with the intial Title V application. Flow rates vary with load and operating conditions.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 2 boiler firing residual fuel oil		
2. Source Classification Code (SCC): 1-01-004-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 56.9	5. Maximum Annual Rate: 498513	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 1	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 2 boiler burning propane		
2. Source Classification Code (SCC): 1-01-006-01	2. SCC Units: Million cubic feet burned	
4. Maximum Hourly Rate: 8.65	5. Maximum Annual Rate: 865	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1000
10. Segment Comment (limit to 200 characters): This unit is currently permitted to burn a variable combination of #6 oil, natural gas, #2 oil, propane, or on-spec. used oil from FPL operations. Propane is primarily used for lighting off the boiler for start-up.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 2 boiler firing #2 diesel oil		
2. Source Classification Code (SCC): 1-01-005-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 63.603	5. Maximum Annual Rate: 557162.3	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 4 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 2 boiler firing on-specification used oil		
2. Source Classification Code (SCC): 1-01-013-02	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 0.5	5. Maximum Annual Rate: 40	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 1	8. Maximum % Ash:	9. Million Btu per SCC Unit: 143
10. Segment Comment (limit to 200 characters): Units 1 & 2 limited to 40,000 gallons in any consecutive 12-month period.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 5 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 2 boiler chemical cleaning waste evaporation. This process may be undertaken while firing #6 fuel oil or natural gas.		
2. Source Classification Code (SCC): 1-01-013-01	3. SCC Units: Thousand gallons burned	
4. Maximum Hourly Rate: 3	5. Maximum Annual Rate: 500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): Items 6,7,8, and 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).		

Segment Description and Rate: Segment 6 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Unit 1 boiler firing natural gas		
2. Source Classification Code (SCC): 1-01-006-01	3. SCC Units: Million cubic feet	
4. Maximum Hourly Rate: 5.45	5. Maximum Annual Rate: 47.759	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.0000006 lb./DSCF	8. Maximum % Ash: 0.0000019Lb./DSCF	9. Million Btu per SCC Unit: 1040
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO_2	N/A	N/A	EL
NO_x	026	025	EL
CO	N/A	N/A	NS
PM	077	N/A	EL
PM_{10}	077	N/A	NS
VOC	N/A	N/A	NS
H133	N/A	N/A	NS
H106	N/A	N/A	NS
H107	N/A	N/A	NS
SAM	N/A	N/A	NS
HAP	N/A	N/A	NS

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: SO_2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 9515 lb/hour 41675.7 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 1.1 Reference: DEP Rule 62-297.405(1)(c)1.g.	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 1.1lb/mmbtu*8650mmbtu/hr=9515.0 lb/hr (9515.0 lb/hr*8760 hr/yr)/2000 lb/ton = 41675.7 tons/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: Emissions limit required by rule	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 1.1 lb/mmbtu	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Fuel sampling & analysis	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 1.1 lb/mmbtu is the current regulatory limit on SO_2 emissions [Rule 62-296.405(1)(c)1.g.]. Equivalent allowable emissions are given for liquid fuel firing.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: NO_x	2. Total Percent Efficiency of Control:
3. Potential Emissions: 2595 lb/hour 11366.1 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.3 Reference: DEP Rule 62-296.405(1)(d)2.	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.4 lb/mmbtu*8650mmbtu/hr = 2595 lb/hr (2595 lb/hr*8760 hr/yr)/2000 lb/ton = 11366.1 tons/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 1

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 lb/mmbtu	4. Equivalent Allowable Emissions: 2595 lb/hour 11366.1 tons/year
5. Method of Compliance (limit to 60 characters): Continuous Emissions Monitoring	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 0.3 lb/mmbtu is the current permit limit on nitrogen oxide emissions [30-day rolling average].	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.Pollutant Emitted: Particulate Matter - Total	2. Total Percent Efficiency of Control:
3. Potential Emissions: 1081.25 lb/hour 4735.9 tons/year	4. Synthetically Limited? [N]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: 0.125 lb/mmbtu Reference: DEP Rule 62-296.405(1)(b) and Rule 62-210.700(3)	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.125 lb/mmbtu*8650mmbtu/h r= 1081.25 lb/hr (1081.25 lb/hr*8760 hr/yr)/2000 lb/ton = 4735.9 tons/yr (Note that 3 hrs @ 0.3 lb/mmbtu & 21 hrs @ 0.1 lb/mmbtu = average 0.125 lb/mmbtu)	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): 0.1 lb/mmbtu represents steady-state conditions. 0.3 lb/mmbtu is the emission limit for sootblowing and load changing conditions in the existing permit for up to 3 hours in 24 hours.	

Allowable Emissions Allowable Emissions 1 of 2

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 lb/mmbtu	4. Equivalent Allowable Emissions: 865 lb/hour 3315.11 tons/year
5. Method of Compliance (limit to 60 characters): DEP Rule 62-296.405(1)(e)2.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 0.1 lb/mmbtu is the current regulatory limit on PM emissions for 21 hours in 24 hours [Rule 62-296.405(1)(b)]. Equivalent allowable emissions are given for liquid fuel firing.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.Pollutant Emitted: Particulate Matter - Total	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 2 of 2

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 lb/mmbtu	4. Equivalent Allowable Emissions: 2595 lb/hour 1420.8 tons/year
5. Method of Compliance (limit to 60 characters): DEP Rule 62-296.405(1)(e)2.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Data is for sootblowing liquid fuel. Equivalent allowable emissions are for liquid fuel firing. 0.3 lb/mmbtu is the current regulatory limit on PM for a max. of 3 hours in 24 hours.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 3

1. Visible Emissions Subtype: VE 40	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 40 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: 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.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 2 of 3

1. Visible Emissions Subtype: VE 60	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: 60 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 24 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment (limit to 200 characters): Rule 62-210.700(3), F.A.C. limits sootblowing and load changing to 60% opacity for up to 3hrs/24hrs with less than four 6-minute periods of up to 100% opacity if unit has an operational CEM.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 3 of 3

1. Visible Emissions Subtype: VE 100	2. Basis for Allowable Opacity: [X] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: 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 start-up and shutdown and up to 2hrs/24hrs for malfunctions.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 1 of 4

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: TECO Model Number: 42 Serial Number: 42-45958-275K	
5. Installation Date: 02/07/94	6. Performance Specification Test Date: 11/09/94
8. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(2). This existing monitor is scheduled to be replaced during May 2003.	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 2 of 4

1. Parameter Code: EM	2. Pollutant(s): CO_2
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: Milton Roy Model Number: 3300	Serial Number: N3K4365T
5. Installation Date: 02/07/94	6. Performance Specification Test Date: 11/09/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(3)(i).	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 3 of 4

1. Parameter Code: EM	2. Pollutant(s): CO_2
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: Milton Roy Model Number: 3300	Serial Number: N3K4365T
5. Installation Date: 02/07/94	6. Performance Specification Test Date: 11/09/94
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(3)(i).	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor 4 of 4

1. Parameter Code: VE	2. Pollutant(s): Opacity
3. CMS Requirement:	[X] Rule [ ] Other
4. Monitor Information: Manufacturer: Phoenix Instruments Inc. Model Number: OPAC 20/20	Serial Number: OPAC-1089
5. Installation Date: 06/10/01	6. Performance Specification Test Date: 11/12/02
7. Continuous Monitor Comment (limit to 200 characters): Required by 40 CFR 75.10(a)(4).	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s): Opacity
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram
   [X] Attached, Document ID: PMTEU2_.bmp [ ] Not Applicable [ ] Waiver Requested

2. Fuel Analysis or Specification
   [X] Attached, Document ID: PMTEU1_2.doc [ ] Not Applicable [ ] Waiver Requested

3. Detailed Description of Control Equipment
   [X] Attached, Document ID: PMTEU1_3.doc [ ] Not Applicable [ ] Waiver Requested

4. Description of Stack Sampling Facilities
   [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested

5. Compliance Test Report
   [ ] Attached, Document ID:_____
   [X] Previously submitted, Date: 06/10/02
   [ ] Not Applicable

6. Procedures for Startup and Shutdown
   [X] Attached, Document ID: PMTEU1_6.doc [ ] Not Applicable [ ] Waiv

7. Operation and Maintenance Plan
   [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested

8. Supplemental Information for Construction Permit Application
   [ ] Attached, Document ID:_____ [X] Not Applicable

9. Other Information Required by Rule or Statute
   [ ] Attached, Document ID:_____ [X] Not Applicable

10. Supplemental Requirements Comment:
    Description of stack sampling facilities: Manatee Unit 1 has stack sampling facilities meeting the requirements of Rule 62-297.310(6) F.A.C.

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[X] Attached, Document ID: PMTEU1_11.doc [ ] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID:_____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[X] Attached, Document ID: PMTEU1_14 [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[X] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID: PMTEU1_15

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

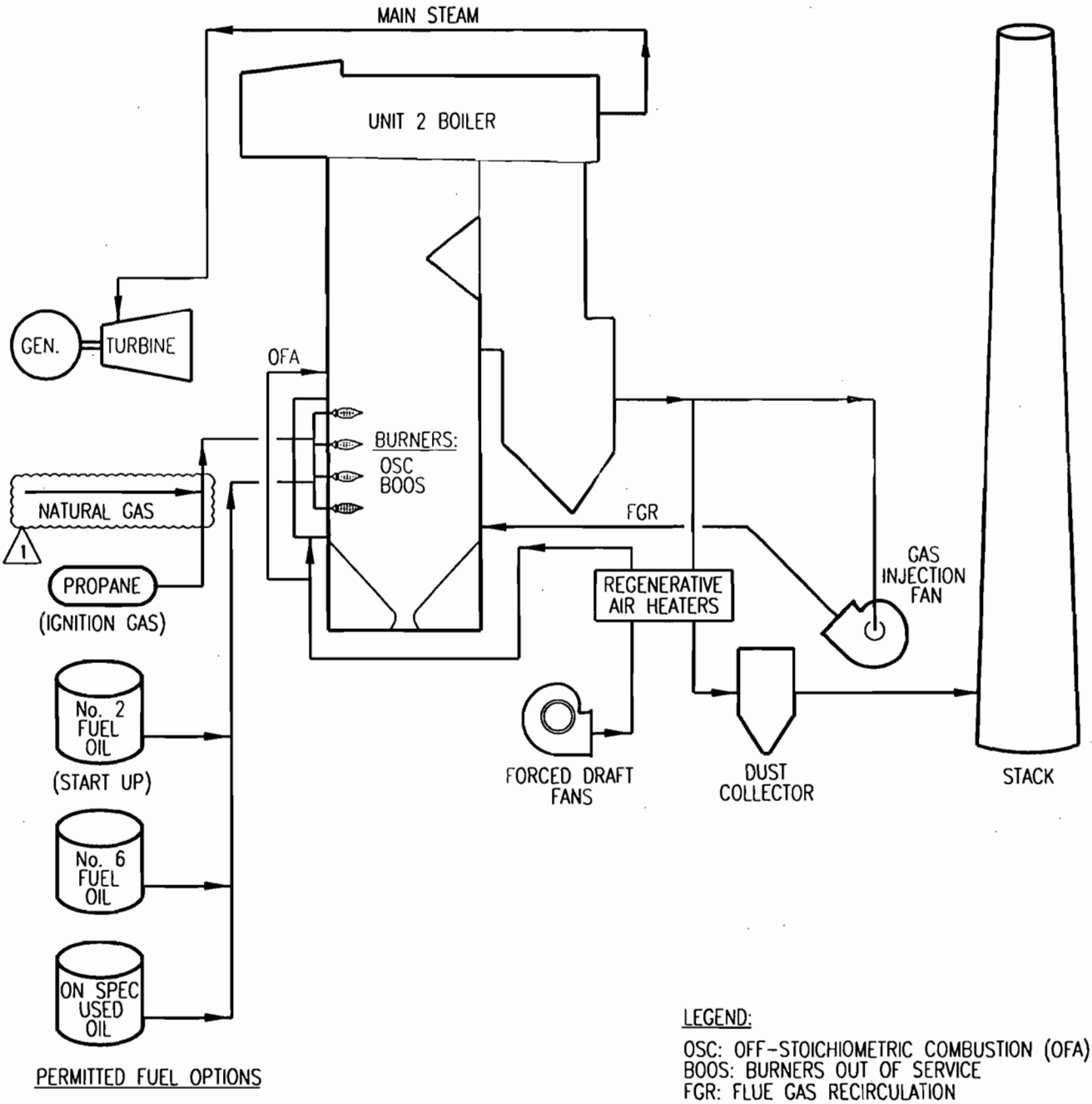
[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[ ] Not Applicable

ATTACHMENT PMTEU2

PROCESS FLOW DIAGRAM

ATTACHMENT: PMTEU2_1.bmp



PERMITTED FUEL OPTIONS

LEGEND:

OSC: OFF-STOICHIOMETRIC COMBUSTION (OFA)
BOOS: BURNERS OUT OF SERVICE
FGR: FLUE GAS RECIRCULATION
OFA: OVER FIRE AIR

TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

BAR CODE

REV	DATE	REVISION DESCRIPTION	ELV BY	PWB CH	PWB COR	CSP APR	KTW CSP	PMT ORG
1	4/24/03	REVISED & ADDED NATURAL GAS FOR TITLE V PERMIT						
0	8/4/95	ISSUED FOR TITLE V PERMIT						ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	MANATEE PLANT

SCALE	CAD FILE NAME	TITLE
N/A	MT012596	EMISSION UNIT PROCESS FLOW DIAGRAM STEAM GENERATOR/BOILER ATTACHMENT NO. EU2

DRAWING SIZE	FPL ARCHIVE NAME
A (8.5X11)	MT012596

DRAWING NUMBER	SHEET	REV
PMT1-M0105-YY	1 OF 1	1

FPCSYM/FPCBDR-A 9/90

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] 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).

[X] 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.

[ ] 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.

2. Regulated or Unregulated Emissions Unit? (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 an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Unregulated emission Units

4. Emissions Unit Identification Number: 003
ID: [ ] No ID [ ] ID Unknown

5. Emissions Unit Status Code: A	6. Initial Startup Date: 10/01/76	7. Emissions Unit Major Group SIC Code: 4911	8. Acid Rain Unit? [N]

9. Emissions Unit Comment: (Limit to 500 Characters): This emission unit section includes all sources of emissions that are unregulated at the facility, including the diesel generator, which is used as an emergency power supply to provide electric power to essential plant equipment in the event of a loss of external power to the facility, while the main units are off line. This emission unit also includes other miscellaneous mobile equipment and internal combustion engines.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:		
Manufacturer: Detroit Diesel		Model Number: 9163-7301
2. Generator Nameplate Rating:	MW 0.8 MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	9.97	mmBtu/hr	
2. Maximum Incineration Rate:		lb/hr	tons/day
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year	8760 (Ex. Emer. Diesel Gen.)	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Information is provided for the diesel generator, which is limited to 400 hrs/yr of operation. Other emission units in this section may operate up to 8760 hours per year.			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

62.296.320 (4) F.A.C.	
62.210.700 (1) F.A.C.	

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? EU3	2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Emergency Diesel Generator		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code: H	6. Stack Height: 16 feet	7. Exit Diameter: 1.17 feet
8. Exit Temperature: 710°F	9. Actual Volumetric Flow Rate: 10770 acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 367.25 North (km): 3054.15		
16. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 6

1. Segment Description (Process/Fuel Type) (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: 0.0733	5. Maximum Annual Rate: 29.32	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): The maximum annual rate is calculated based on 400 hours of operation per year.		

Segment Description and Rate: Segment 2 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Above-ground Tank #TA- 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: 1002206425
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): From initial Title V Application. Breathing loss = 115.91 lbs VOC/yr (per EPA Tanks2 program) Working loss = 337.27 lbs VOC/yr (per EPA Tanks2) Total estimated losses = 0.23 TPY, using estimated activity factor given above.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Above-ground Tank #TB- 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: 1002206425
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
11. Segment Comment (limit to 200 characters): From initial Title V Application. Breathing loss = 115.91 lbs VOC/yr (per EPA Tanks2 program) Working loss = 337.27 lbs VOC/yr (per EPA Tanks2) Total estimated losses = 0.23 TPY, using estimated activity factor given above.		

Segment Description and Rate: Segment 4 of 6

1. Segment Description (Process/Fuel Type) (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:	6. Maximum Annual Rate:	6. Estimated Annual Activity Factor: 1002206425
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters): From initial Title V Application. Breathing loss = 5.56 lbs VOC/yr (per EPA Tanks2 program) Working loss = 85.06 lb/ VOC/yr (per EPA Tanks2) Total estimated losses = 0.45 TPY, using estimated activity factor given above.		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 5 of 6

1. Segment Description (Process/Fuel Type) (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:	6. Maximum Annual Rate:	6. Estimated Annual Activity Factor: 1002206425
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): From initial Title V Application. Breathing loss = 5.56 lbs VOC/yr (per EPA Tanks2 program) Working loss = 85.06 lb/ VOC/yr (per EPA Tanks2) Total estimated losses = 0.45 TPY, using estimated activity factor given above.		

Segment Description and Rate: Segment 6 of 6

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Above – ground tank #LO – Working and breathing loss		
2. Source Classification Code (SCC): 4-03-010-21	3. SCC Units: Thousand gallons transferred or handled	
5. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: 57296118
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): From initial Title V Application. Total estimated losses = 0.27 TPY using estimated activity factor given above. Data reflects one unit @ max throughput.		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO_2	N/A	N/A	NS
NO_x	N/A	N/A	NS
CO	N/A	N/A	NS
VOC	N/A	N/A	NS

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE 20	2. Basis for Allowable Opacity: [ ] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
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. [Rules 62-296.320(4) and 62-210.700(1), F.A.C.]	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters): Continuous monitors are not required for the emergency diesel generator.	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: PMTEU3_1.bmp [ ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: PMTEU3_2.doc [ ] Not Applicable [ ] Waive
3. Detailed Description of Control Equipment [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [X] Attached, Document ID: PMTEU3_6.doc [ ] Not Applicable [ ] Waive
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

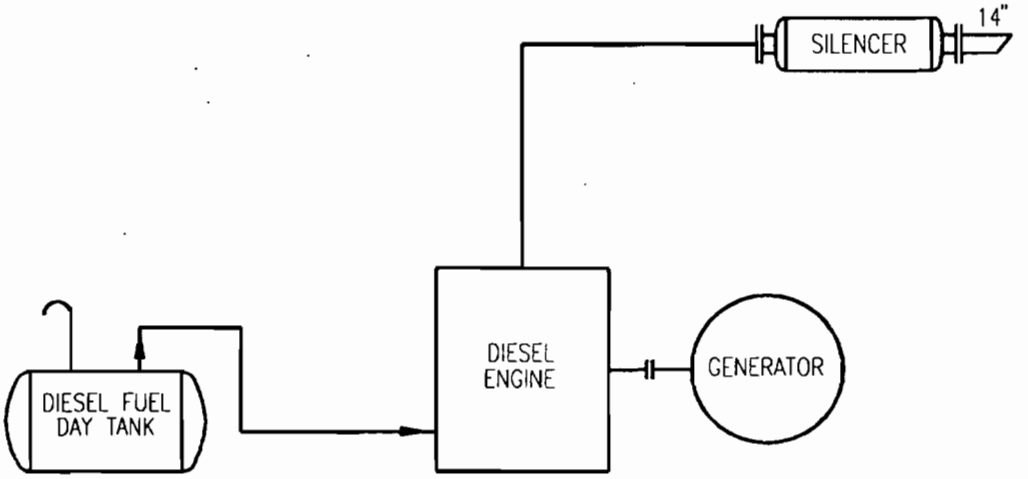
[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

ATTACHMENT PMTEU3_1

PROCESS FLOW DIAGRAM

ATTACHMENT: PMTEU3_1.bmp



WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	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	DISCIPLINE	PLANT/UNIT
YY	M	MANATEE PLANT UNITS 1 & 2
SCALE: N/A	CAD FILE NAME: MT002597	TITLE: EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU3
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: MT002597	

DRAWING NUMBER	SHEET	REV
PMT1-M0106-YY	1 OF 1	0

FPGSYM/FPGBDR-A 9/90

ATTACHMENT PMTEU3_2

FUEL ANALYSIS OR SPECIFICATION

Attachment PMTEU3_2.doc

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 PMTEU3_6

PROCEDURES FOR STARTUP/SHUTDOWN

Attachment PMTEU3_6.doc

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 monthly basis for 1 to 2 hours to ensure that it will function properly when needed in an emergency.

Startup for the emergency diesel generator begins with actuating a switch which operates an electric start motor on the diesel engine which "turns over" the diesel engine until ignition of the diesel fuel commences.

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

Best Operating Practices include proper maintenance of the diesel engines by trained personnel on the generating unit 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.

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J 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.

A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in This Section: (Check one)

[ ] 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).

[ ] 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.

[X] 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.

2. Regulated or Unregulated Emissions Unit? (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 an unregulated emissions unit.

3. Description of Emissions Unit Addressed in This Section (limit to 60 characters):
Painting of plant equipment and Non-Halogenated solvent cleaning operations.

4. Emissions Unit Identification Number: 004 [ ] No ID
ID: [ ] ID Unknown

5. Emissions Unit Status Code: A	6. Initial Startup Date: 10/01/76	7. Emissions Unit Major Group SIC Code:	8. Acid Rain Unit? [N]

9. Emissions Unit Comment: (Limit to 500 Characters). All relevant information regarding this unregulated emission unit is included above.

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit: Manufacturer: ___	Model Number: __	
2. Generator Nameplate Rating:	MW	
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	mmBtu/hr		
2. Maximum Incineration Rate:	lb/hr		tons/day
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:			
	hours/day		days/week
	weeks/year	Variable	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

N/A	

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

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? N/A	2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code:	6. Stack Height: 16 feet	7. Exit Diameter: 1.17 feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):		
17. Emission Point Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): N/A		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
VOC	**N/A**	**N/A**	**NS**

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units - Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1.Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1 [ ] 2 [ ] 3 _____ to _____ tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: [ ] Rule [ ] Other
3. Requested Allowable Opacity: Normal Conditions: Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[ ] Rule [ ] Other
4. Monitor Information: Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)

Supplemental Requirements

1. Process Flow Diagram [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [ ] Attached, Document ID:_____ [ ] Previously submitted, Date:_____ [X] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID:_____ [X] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID:_____ [X] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID:_____ [X] Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation
[ ] Attached, Document ID:_____ [X] Not Applicable

12. Alternative Modes of Operation (Emissions Trading)
[ ] Attached, Document ID:_____ [X] Not Applicable

13. Identification of Additional Applicable Requirements
[ ] Attached, Document ID: _____ [X] Not Applicable

14. Compliance Assurance Monitoring Plan
[ ] Attached, Document ID:_____ [X] Not Applicable

15. Acid Rain Part Application (Hard-copy Required)

[ ] Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
Attached, Document ID:_____

[ ] Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
Attached, Document ID:_____

[ ] New Unit Exemption (Form No. 62-210.900(1)(a)2.)
Attached, Document ID:_____

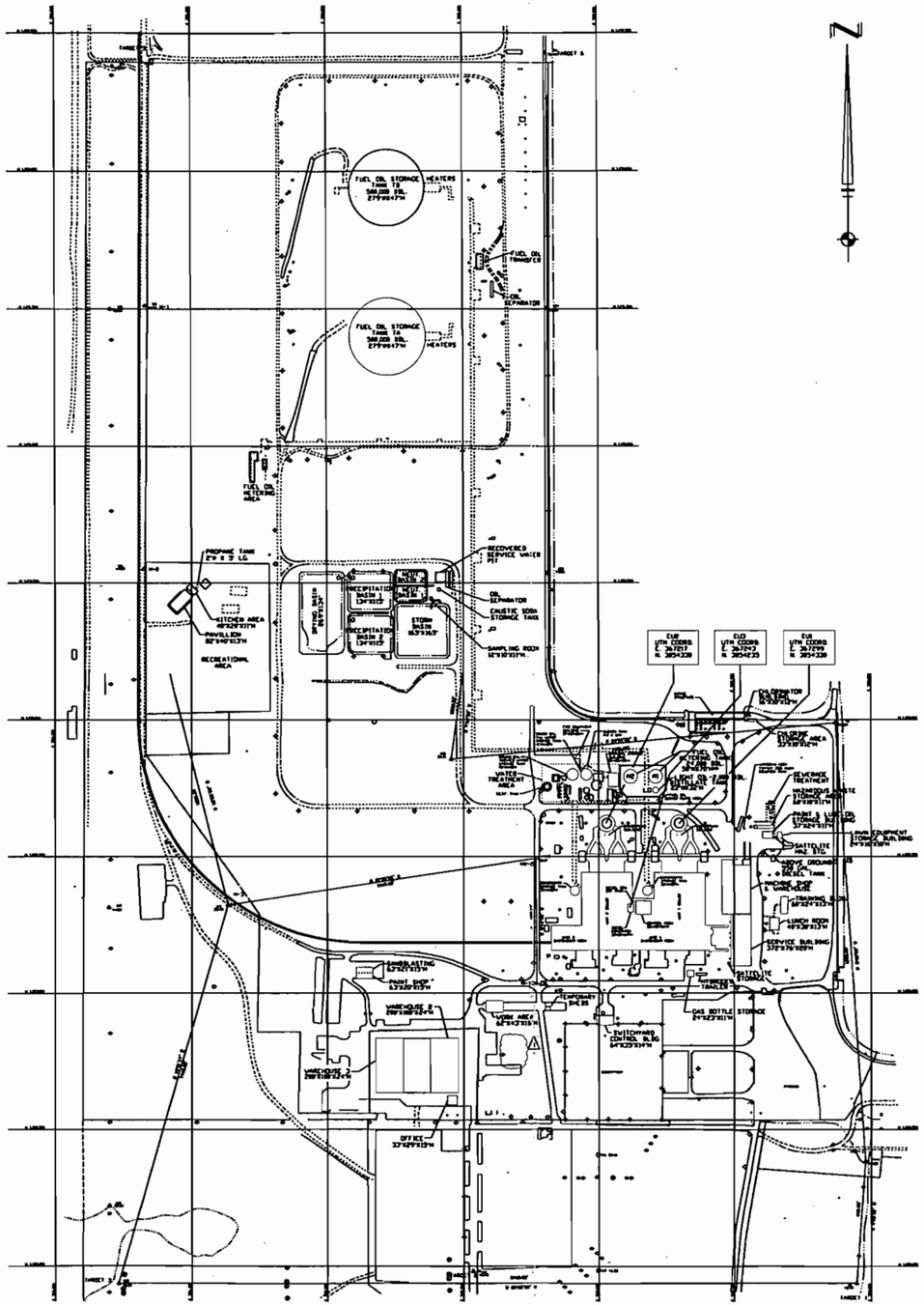
[ ] Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
Attached, Document ID:_____

[ ] Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.)
Attached, Document ID:_____

[ ] Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
Attached, Document ID:_____

[X] Not Applicable

ATTACHMENT: PMTFS_2.bmp



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

REV	DATE	REVISION DESCRIPTION	ELV PWR BY	PWR CH	CSP COR	MM CSP APR	PMT CTS ORG
1	6-19-03	REVISED FOR TITLE V PERMIT					
0	8/3/95	ISSUED FOR TITLE V PERMIT					

FPL

SYSTEM: YY	DISCIPLINE: N/A	PLANT/UNIT: MANATEE PLANT-UNIT 1 & 2	DWR CODE
SCALE: 1=100	CAD FILE NAME: MTD12593	TITLE: FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V	
DRAWING SIZE: E(30"X42")	FPL ARCHIVE NAME: MTD12593		
DRAWING NUMBER: PMT1-M0038-YY		SHEET: 1 OF 1	REV: 1

FPCSTM/FPGBDR-E 5/93

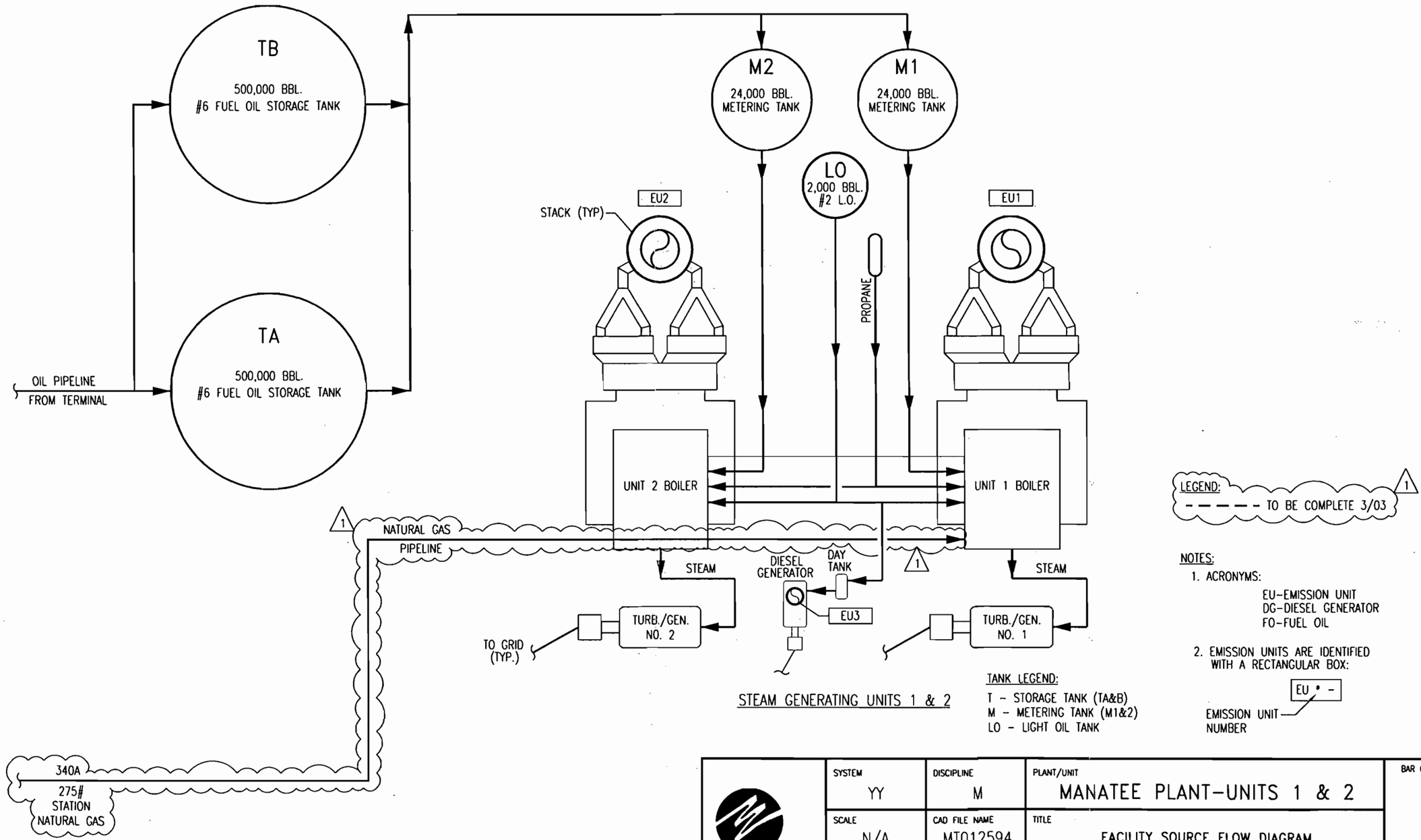
ATTACHMENT: PMTFS_3.bmp

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

LEGEND:
1
- - - - - TO BE COMPLETE 3/03

NOTES:
1. ACRONYMS:
   EU-EMISSION UNIT
   DG-DIESEL GENERATOR
   FO-FUEL OIL
2. EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:
   EU * -
   EMISSION UNIT NUMBER

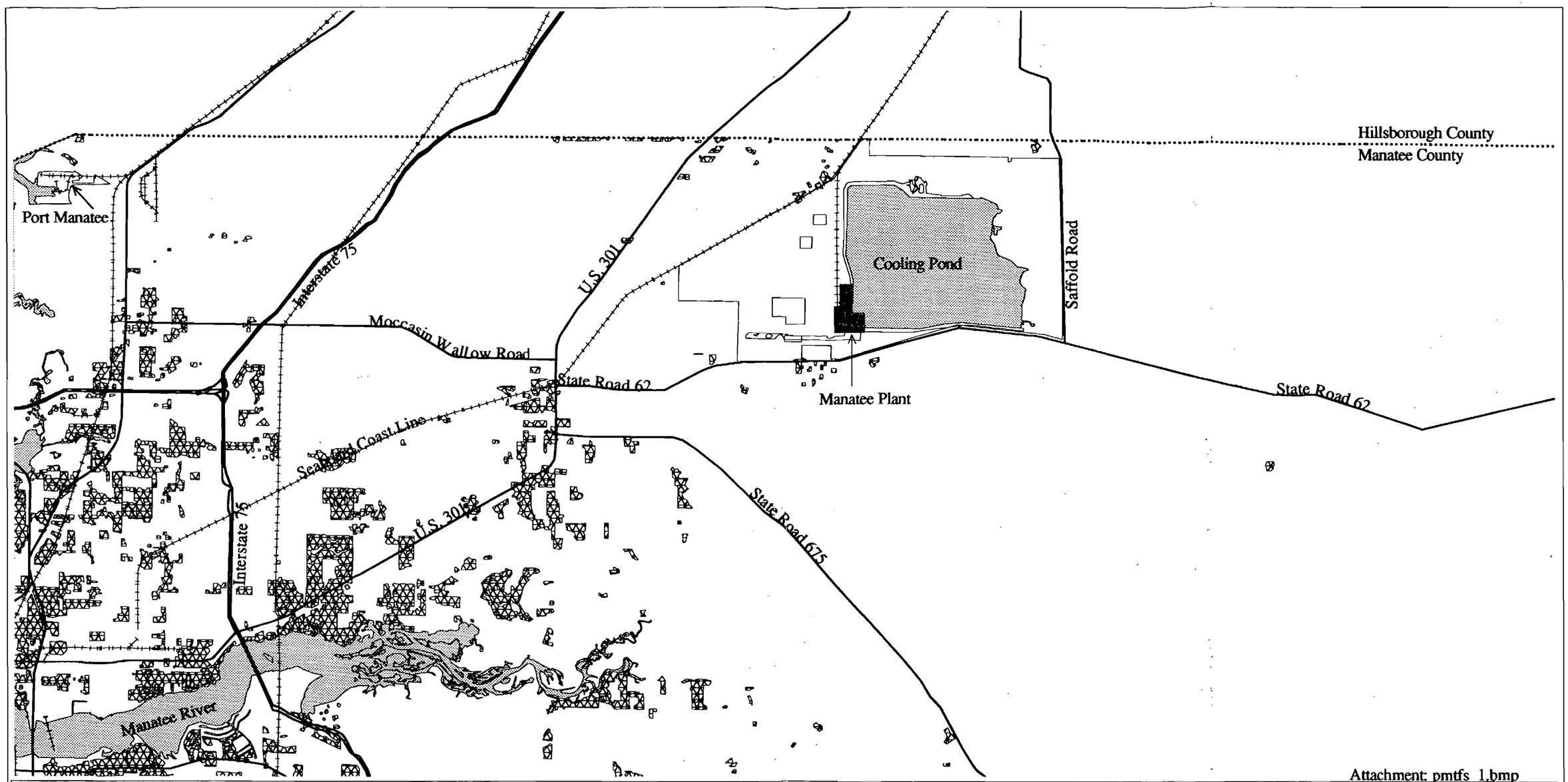
TANK LEGEND:
T - STORAGE TANK (TA&B)
M - METERING TANK (M1&2)
LO - LIGHT OIL TANK

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
1	4-14-03	REVISED FOR TITLE V PERMIT	ELV			MM	PMT
0	8/15/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
YY	M	MANATEE PLANT-UNITS 1 & 2	
SCALE: N/A	CAD FILE NAME: MT012594	TITLE: FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 TITLE V	
DRAWING SIZE: B(11"X17")	FPL ARCHIVE NAME: MT012594		
DRAWING NUMBER: PMT1-M0103-YY		SHEET: 1 OF 1	REV: 1

GSYM/FPGBDR-B 5/93



Attachment: pmtfs_1.bmp

Manatee Plant Area Map
Manatee County

Source: Landuse data provided by Southwest Florida 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 10km
0mi 1mi 2mi 3mi 4mi 5mi 6mi

N W E S

- Manatee Plant
- Water
- Residential Areas
- Major Roads
- Railroads

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