

**TITLE V PERMIT APPLICATION
FLORIDA POWER & LIGHT COMPANY
PUTNAM PLANT
EAST PALATKA, FLORIDA**

1070014-005-AV

Renewal
June 1, 2003

RECEIVED

JUN 01 2003

BUREAU OF AIR REGULATION

**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**

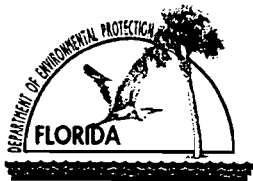
**May 2003
0237560**

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1 Copy - Golder Associates Inc.



Department of Environmental Protection

Division of Air Resources Management

Identification of Facility

1. Facility Owner/Company Name: Florida Power and Light Company	
2. Site Name: Putnam Plant	
3. Facility Identification Number: 10700 14 [] Unknown	
4. Facility Location: Street Address or Other Locator: 392 U.S. Highway, 17 South City: East Palatka, FL County: Putnam Zip Code: 32031	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: Mary Archer Principal Environmental Specialist	
2. Application Contact Mailing Address: Organization/Firm: FPL Environmental Services Dept. [JES/JB] Street Address: 700 Universe Blvd. City: Juno Beach State: FL Zip Code: 33408	
3. Application Contact Telephone Numbers: Telephone: (561)- 691-7057	cell: 561-665-5501 Fax: (561)- 691-7070 or -7049

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
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: _____

- 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: 10700 14-004-AV

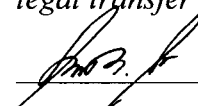
Reason for revision: Renewal

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: Scott D. Stone, Plant General Manager		
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: FPL Putnam Plant Street Address: 392 U.S. Highway, 17 South City: East Palatka State: FL Zip Code: 32031		
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (904)- 325-1206 Fax: (904)- 329-4699		
4. Owner/Authorized Representative or Responsible Official Statement: <i>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.</i> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">  _____ Signature </div> <div style="width: 45%; text-align: center;"> 4/22/03 _____ Date </div> </div>		

* 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 Engineering Associates, Inc.* Street Address: 6241 NW 23rd Street, Suite 500 City: Gainesville State: FL Zip Code: 32653-1500		
3. Professional Engineer Telephone Numbers: Telephone: (352)336-5600 Fax: (352) 336-6603		

*Board of Professional Engineers Certificate No. 00001670

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.

Hamad W. Elshy

Signature

5/23/03

Date

* 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
003	Combined Cycle Combustion Turbine Generator 1GT-1 with Unfired Heat Recovery Steam Generator	NA	N/A
004	Combined Cycle Combustion Turbine Generator 1GT-2 with Unfired Heat Recovery Steam Generator	NA	
005	Combined Cycle Combustion Turbine Generator 2GT-1 with Unfired Heat Recovery Steam Generator	NA	
006	Combined Cycle Combustion Turbine Generator 2GT-2 with Unfired Heat Recovery Steam Generator	NA	
007	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG 1GT-1	NA	
008	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG 1GT-2	NA	
009	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG 2GT-1	NA	
010	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG 2GT-2	NA	
011	Auxiliary Boiler.		
012	Emergency Diesel Generator, Miscellaneous Mobile Equipment and Internal Combustion Engines		
013	Painting of Plant Equipment and Non-halogenated Solvent Cleaning Operations		

Application Processing Fee

Check one: [] Attached - Amount: \$ _____ [X] Not Applicable

Construction/Modification Information

1. Description of Proposed Project or Alterations:
2. Projected or Actual Date of Commencement of Construction:
3. Projected Date of Completion of Construction:

Application Comment

{Note: The emissions unit grouping accommodates the acid rain grouping application for renewal of Title V permit.}

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 443 North (km): 3278			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 29 / 37 / 44 Longitude (DD/MM/SS): 81 / 35 / 6			
3. Governmental Facility Code: O	4. Facility Status Code: A	5. Facility Major Group SIC Code: 49	6. Facility SIC(s): 4911
7. Facility Comment (limit to 500 characters): <p>There are 2 combined-cycle CT units at the facility. Each combined-cycle CT unit is composed of 2 combustion turbines & 2 HRSGs, for a total of 4CTS and 4 HRSGs. Inlet foggers are installed at the compressor inlet to each of the four CTs.</p> <p>There is also an auxilliary boiler & emergency diesel generator onsite.</p> <p>The HRSG ductburners are new sources subject to NSPS Subpart Db regulations. The combustion turbines are existing units that are not subject to NSPS.</p>			

Facility Contact

1. Name and Title of Facility Contact: Mr. John Kahl, Environmental Specialist		
2. Facility Contact Mailing Address: Organization/Firm: FPL Putnam Plant Street Address: 392 US 17 South City: East Palatka State: FL Zip Code: 32331		
3. Facility Contact Telephone Numbers: Telephone: (904)329-4609 Fax: (904)329-4699		

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	
<p>The HRSG ductburners are new sources subject to NSPS Subpart Db regulations. The combustion turbines are existing units that are not subject to NSPS. NESHAP = 40 CFR 61, Subpart M, would apply for demolition or removal where asbestos material have been used.</p>	

List of Applicable Regulations

See PPN Reg list	

Putnam Power Plant

File: PPN Reg list

[Note: This list is a modification of the Title V Core List regulations.]

Federal: (description)

40 CFR 61, Subpart M: NESHAP for Asbestos.
40 CFR 61.05: Prohibited acts
40 CFR 61.12(b): Standards & Maintenance
40 CFR 61.145: Demolition & renovation
40 CFR 61.148: Insulating materials
40 CFR 61.150: Waste disposal
40 CFR 61.19: Circumvention

40 CFR 82: Protection of Stratospheric Ozone.

State: (description)

PERMITS

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.

STATIONARY SOURCES - GENERAL REQUIREMENTS

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.[except (b)]
62-210.300(3), F.A.C.: Exemptions.
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(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.

Putnam Power Plant

File: PPN Reg list

62-210.400, F.A.C.: Emission Estimates.

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.

OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION

62-213.205, F.A.C.: Annual Emissions Fee.

62-213.205(1)(a),(b), (c),(e),(f),(g),(h),(i),(j), F.A.C.: Annual Emissions Fee

62-213.205(4) F.A.C.: Permit Fees Waived.

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.

62-213.420, 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.

STATIONARY SOURCES - EMISSION STANDARDS

62-296.320(2), F.A.C.: Objectionable Odor Prohibited. [state only]

62-296.320(3)(b), F.A.C.: Open Burning Prohibited. [state only]

62-296.320(4)(b), F.A.C.: Visible Emissions Standard.

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

STATIONARY SOURCES - EMISSIONS MONITORING

62-297.310, F.A.C.: General Test Requirements.

62-297.310(7)(a)10, F.A.C.: Compliance Test exemption

62-297.330, F.A.C.: Applicable Test Procedures.

62-297.340, F.A.C.: Frequency of Compliance Tests.

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.

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File: PPN Reg list

Miscellaneous:

62-4.30, F.A.C.: General Prohibition

62-4.40, F.A.C.: Exemptions

62-4.100, F.A.C.: Suspension and Revocation

62-4.130, F.A.C.: Plant Operation - Problems

62-204.800(10)(b)8., F.A.C.: [state only] asbestos

62-204.800(16), F.A.C.: [state only] excess emissions

62-256, F.A.C.: Open Burning and Frost Protection Fires

62-257, F.A.C.: Asbestos Notification and Fee

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
SO2	A				
NOx	A				
CO	A				
PM	A				
PM10	A				
VOC	A				
PB	A				
H148	A				
H133	A				
H095	A				
SAM	A				
HAP	A				

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

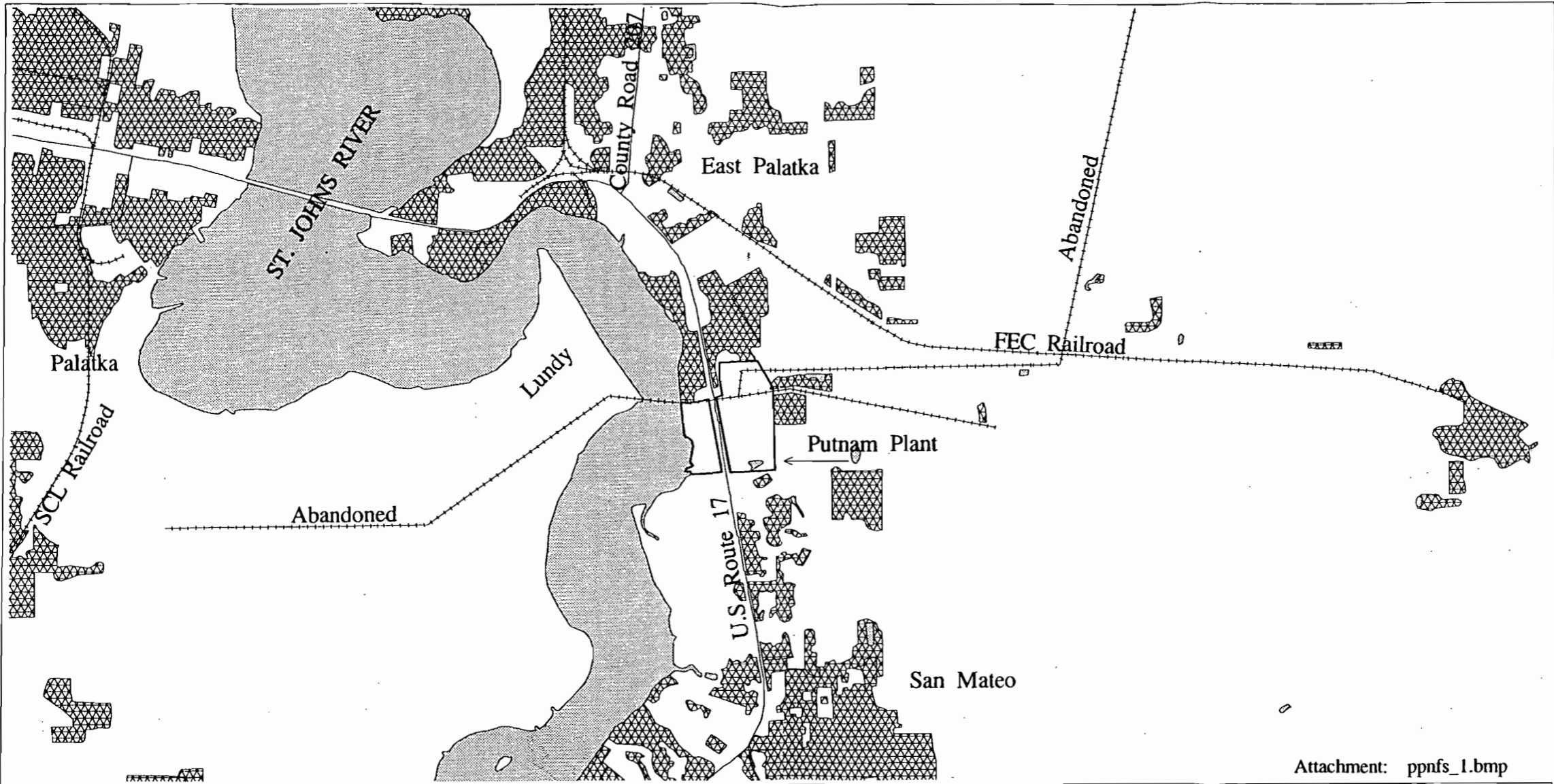
1. Area Map Showing Facility Location: [X] Attached, Document ID: PPNFS_1 [] Not Applicable [] Waiver Requested
2. Facility Plot Plan: [X] Attached, Document ID: PPNFS_2 [] Not Applicable [] Waiver Requested
3. Process Flow Diagram(s): [X] Attached, Document ID: PPNFS_3 [] Not Applicable [] Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: [X] Attached, Document ID: PPNFS_4 [] Not Applicable [] Waiver Requested
5. Fugitive Emissions Identification: [X] Attached, Document ID: PPNFS_5 [] 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: <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_8</u> _____ <input type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_9</u> _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_10</u> _____ <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_12</u> _____ <input type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> 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: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_14</u> _____ <input type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input checked="" type="checkbox"/> Attached, Document ID: <u>PPNFS_15</u> _____ <input type="checkbox"/> Not Applicable

ATTACHMENT PPNFS_1

AREA MAP SHOWING FACILITY LOCATION








Attachment: ppnfs_1.bmp

Putnam Plant Area Map

Putnam County



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

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.

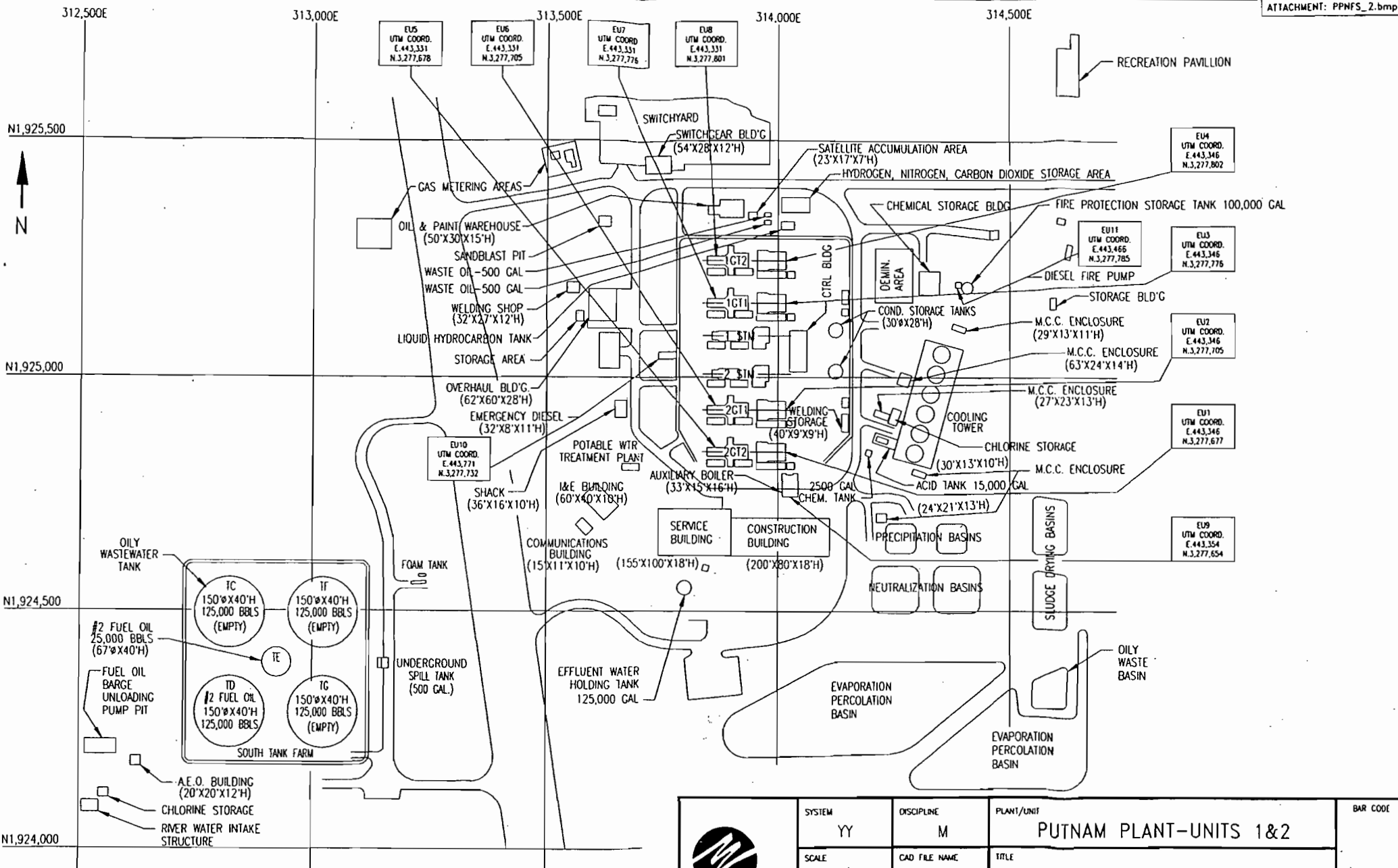
SOURCE: Landuse data provided by Saint Johns River Water Management District (1993)

./export/home/can/ppn-site.map (3-95)

ATTACHMENT PPNFS_2

FACILITY PLOT PLAN

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



SCALE 3/8" = 1'-0"

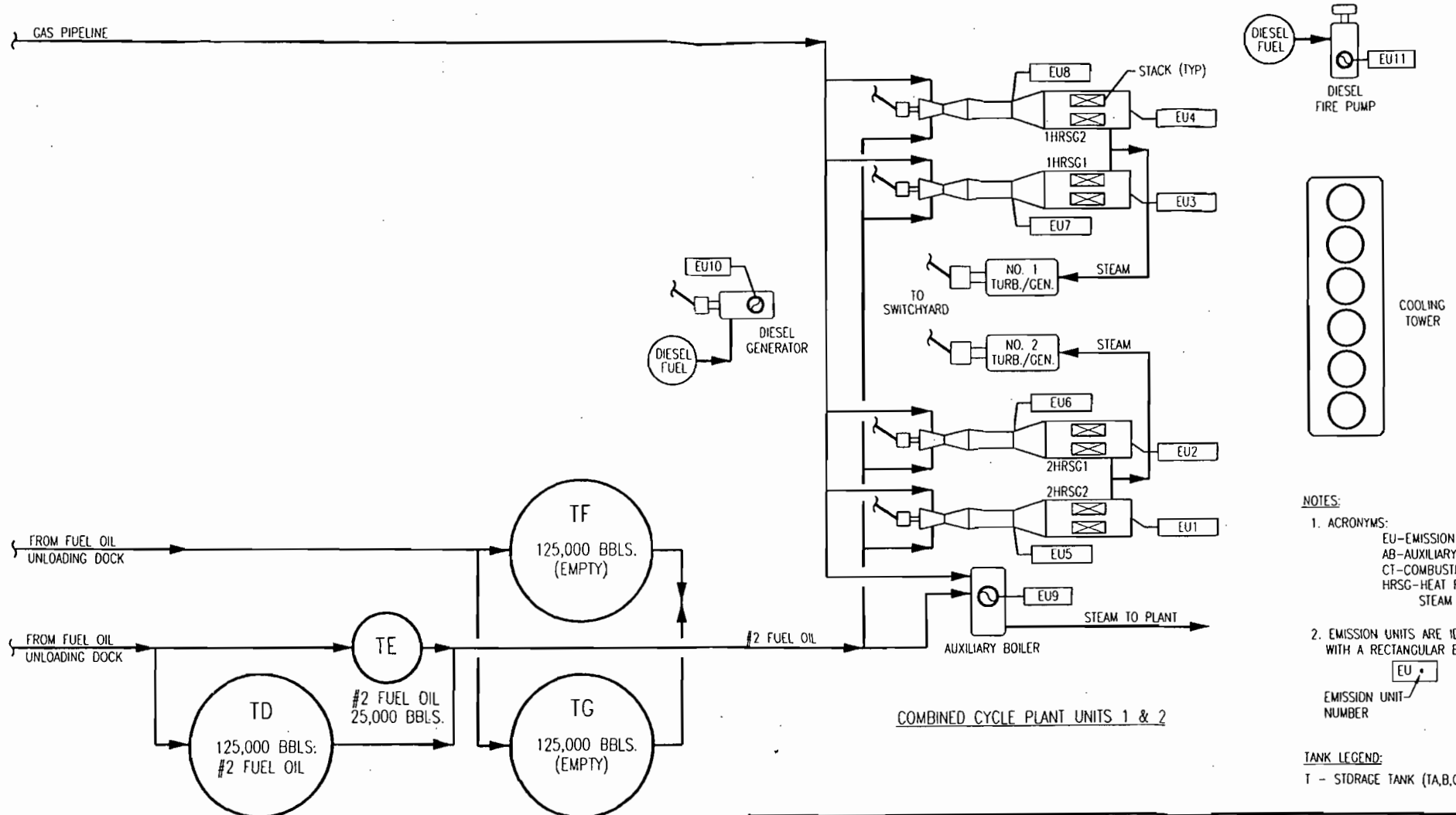
SCALE 1/4" = 1'-0"


0	8/17/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT-UNITS 1&2		BAR CODE
	SCALE	N/A	CAD FILE NAME	PN002007	TITLE	FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V		
	DRAWING SIZE	B(11"x17")	FPL ARCHIVE NAME	PN002007	DRAWING NUMBER	SHEET	1 OF 1	REV
							0	

ATTACHMENT PPNFS_3
PROCESS FLOW DIAGRAM


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



- NOTES:**
- ACRONYMS:
 EU-EMISSION UNIT
 AB-AUXILIARY BOILER
 CT-COMBUSTION TURBINE
 HRSG-HEAT RECOVERY STEAM GENERATOR
 - EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

 EMISSION UNIT NUMBER
- TANK LEGEND:**
 T - STORAGE TANK (T,A,B,C,D,E,F&G)

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"

	SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
	YY	M	PUTNAM PLANT-UNITS 1 & 2	
	SCALE	CAD FILE NAME	TITLE	FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 TITLE V
	N/A	PN002143		
DRAWING SIZE	FPL ARCHIVE NAME			
B(11"x17")	PN002143			
DRAWING NUMBER	PPN1-M0101-YY		SHEET	REV
			1 OF 1	0

0	7/27/95	ISSUED FOR TITLE V PERMIT							
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG	PWB	ETS

ATTACHMENT PPNFS_4

**PRECAUTIONS TO PREVENT EMISSIONS OF
UNCONFINED PARTICULATE MATTER**

Attachment PPNFS_4.txt

Precautions to Prevent Emissions of Unconfined Particulate Matter

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

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

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

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

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

- Use of hoods, fans and filters to contain and capture sand in sandblasting facility. The facility also constructs temporary

order to sandblasting enclosures when necessary, in 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.

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

Estimates of fugitive particulate emissions

Bagged chemical products - The facility utilizes several bagged chemical products for various purposes. Mono-, di-, and trisodium phosphate are used for the treatment of process water. One 50-lb bag is currently used every 2-3 months. Soda ash and bagged citric acid are maintained on site as neutralizing agents in the event of particulate emissions associated with bagged chemical products are estimated to be significantly less than 1 ton per year.

Fugitive Dust from paved roads -

ATTACHMENT PPNFS_5
FUGITIVE EMISSIONS IDENTIFICATION

Attachment PPNFS_5.doc
Fugitive Emission Identification

It should be noted that many fugitive emissions at the plant site have been classified as "insignificant activities" and as such are not contemplated her. For example, VOC emissions from leaks in the lube oil systems at the facility would be considered fugitive emissions, but have been judged to be insignificant, and so appear as such on the Insignificant Activities list.

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PPNFS_3.txt. FPL is not aware of fugitive emissions of sulfur dioxide, nitrogen oxides, carbon monoxide or lead compounds which would exceed the thresholds defined in the permit application instructions.

Volatile Organic Compounds (VOC's)

Fugitive emissions of VOC's include those resulting from the use of cleaners and solvents for maintenance and operation. VOC's are also emitted by the various fuel oil storage tanks on the plant property, and by the combined-cycle combustion turbines and the simple-cycle gas turbines. VOC emissions for each of these emission units are covered in the respective Emission Unit sections of this permit application.

Fugitive HAPs Emissions

The following hazardous air pollutants are present on the facility property and are potential sources of fugitive HAPs emissions:

- asbestos
- chlorine
- hydrazine
- hydrochloric acid
- mercury compounds
- methyl ethyl ketone
- toluene
- xylene

Asbestos - Present in gasket material, pipe insulation and various other locations. The facility complies with the federal NESHAPS (40 cfr 61 subpart M) and state rules (17-257 F.A.C.) governing the abatement of asbestos-containing-materials. No releases of asbestos are expected for the facility.

Chlorine - Present in 2 55-gallon containers (10% solution). Used for water treatment at the facility. Presumptively exempt under category #27 of the FDEP Title V Insignificant Source Summary dated May 20, 1994.

Hydrazine - The facility maintains 3, 135-gallon bins of 35% hydrazine solution for the treatment of boiler water. The facility uses approximately 200 mls per week. Presumptively

exempt under category #27 of the FDEP Title V Insignificant
Source Summary dated May 20, 1994.

ATTACHMENT PPNFS_8

LIST OF PROPOSED INSIGNIFICANT ACTIVITIES

Attachment PPNFS_8.doc

List of Proposed Insignificant Emissions Units and /or Activities

Listed below are emissions units and/or activities that are considered insignificant pursuant to Rule 62-213.430(6), F.A.C. and contained in the current Title V permit.

1. Gas metering area relief valves.
2. Hydrazine mixing tank and relief valves.
3. Fuel oil storage tanks and related equipment.
4. Lube oil tank vents and extraction vents.
5. Oil/water separators and related equipment.
6. Sandblasting facility.
7. Fire protection equipment.
8. Miscellaneous Mobile Vehicle Operations (cars, light trucks, heavy-duty trucks, backhoes, tractors, forklifts, cranes, etc.).

A complete list follows.

**ATTACHMENT PPNFS-8
INSIGNIFICANT SOURCE SUMMARY
PUTNAM PLANT**

UNITS 1 & 2 COMBINED CYCLE POWER BLOCK			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Boiler Feed	Deaerator Relief Valves	Safety	Steam Exempted by D.E.P. Assessment Chart Item 31
	L.P. Drum Relief Valves		
	H.P. Drum Relief Valves		
	Relief Valves PSV-1C		
	3/4" Vents	Maintenance	
	1" Vents		
Main Steam	Relief Valves PSV-3	Safety	Steam Exempted by D.E.P. Assessment Chart Item 31
	1" Vents	Maintenance	
	2" Air Ejector Condenser Vent		
	6" Hogging Ejector Vent	Continuous Control Release	
	Relief Valve PSV-4	Safety	
	4" Rupture Disk Vent		
	5" Superheater Steam Relief Valve Vent		
Condensate	Condensate Storage Tank Vent	Continuous	H2O Not a Pollutant
	Gland Steam Condenser Exhauster		
	3/4" Vents	Maintenance	
River Water	3" Air Release Valves	Continuous	H2O Not a Pollutant
	1" Vents	Maintenance	
	3/4" Vents		

UNITS 1 & 2 COMBINED CYCLE POWER BLOCK			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Fire Protection	Fire Protection Tank (100,000 Gal.) 8" Vent	Continuous	
	Liquid Foam Storage Tank Vent (2,000 Gal.)	Continuous	
	Fire Pump Air Release	Operation of Fire Pump	H2O Not a Pollutant
	Diesel Engine Exhaust	Operation of Diesel Engine	Exempted by Rules 17-210.300(3)(u)(t)
	1" Vents	Maintenance	H2O Not a Pollutant
Potable/Service Water	Clearwell	Continuous	H2O Not a Pollutant
	1" Vents	Maintenance	
Auxiliary Steam Supply	4" Condensate Return Units Vent	Continuous	H2O Not a Pollutant
Demineralized Water	1" Vents	Maintenance	H2O Not a Pollutant
Fuel Oil Unloading System	#6 F.O. Sample Tank Vent	Maintenance	Insignificant V.O.C.
H.R.S.G.	Relief Valves PSV-2C PSV-2D PSV-1C	Safety	
	10" Blowdown Tank Vent	Continuous	
	10" Vent Relief Valve PSV-16		
Lube Oil	Lube Oil Reservoir Vapor Extractor	Continuous	
	Gen. Loop Seal Reservoir Vapor Extractor		
Combustion	Valve FSC-458A,B Discharge		Air
Seal Oil	Generator Bearing & Seal Drain Vapor Extractor	Continuous	
	Turbine Oil Reservoir Vapor Extractor		
Liquid Fuel	Liquid Fuel H.P. Filter Vent Valve		
	Liquid Fuel L.P. Filer Vent Valve		

UNITS 1 & 2 COMBINED CYCLE POWER BLOCK			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Circulating and Auxiliary Water	Main Condenser Air Release Valves		H2O Not a Pollutant
#6 Fuel Oil	1500 Gallon Drain Collection Tank 4" Vent Underground	Continuous	Insignificant V.O.C.
	Relief Valve Blowdown Tank Relief Valve 2500 Gallon		
	1" Vents	Maintenance	
#2 Fuel Oil	Underground Drain Collection Tank 4" Vent With Flame Arrestor 1500 Gallon	Continuous	Insignificant V.O.C.
	1" Vents	Maintenance	
#2 Fuel Oil	12" Vent with Breather Valve for Fuel Storage Tank "E" (25,000 BBL.)	Continuous	
	12" Vent with Breather Valve for Fuel Storage Tank "D" (125,000 BBL.)		
Cooling Tower	Tower Vapors	Continuous	Later

Waste Water Treatment			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Plant Effluent	Effluent System Holding Tank Vent	Continuous	Insignificant V.O.C.
	Effluent Oil Slop Tank 4" Vent (2,500 Gal.)		
	1" Vents	Maintenance	
Basins	Sludge Drying Basins 161,800 Gal.	Continuous	H2O Evaporation Exempted by D.E.P. Assessment Chart Item 33
	Oily Waste Basin 320,000 Gal.		
	Solid Settling Basins 322,500 Gal.		
	Neutralization Basins 576,000 Gal.		
	(East) Evaporation Percolating Basin 4,985,000 Gal.		
	(West) Evaporation Percolating Basin 7,122,000 Gal.		
Water Treatment (Demineralizer)	Caustic Heater Tank Relief Valve	Safety	
	Caustic Storage Tank Vent	Continuous	
	Caustic Storage Tank Vent 2"	Maintenance	
	Acid Storage Tank Vent 2"		
	Coagulator Tank	Continuous	
Oily Waste Water	Oily Waste Holding Tank Vent (55,000 BBL.)	Continuous	Later

Ancillary Facilities			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Auxiliary Boiler	4" Disch. for Boiler Drum Relief Valves 24" Stack 6" Blowdown Tank Disch. 2" Deaerator Relief Valve Disch. 24" Building Exhaust Fan	Maintenance	
Air Skid	Air Receiver Relief Valve		
Gas Metering Area A	1/2" Vents 8" Control Vent 1,000 Gal. Petroleum Tank with 2" Vent to Atmosphere 1/2" Scrubber Vent		
Bulk Gas (Hydrogen)	Relief Valve	Safety	H2 Non-Regulated Substance
Bulk Gas (Nitrogen)	Relief Valve	Safety	Nitrogen Non-Regulated Substance
Bulk Gas (Carbon Dioxide)	Relief Valve	Safety	CO2 Non-Regulated Substance
Filling Stations	Aboveground Unleaded Gasoline Tank Vent (500 Gal.) Aboveground Diesel Fuel Tank Vent (500 Gal.)	Continuous	Later
Control Auxiliary and Miscellaneous Buildings Portable and Sanitary	Sanitary Vents	Continuous	Late Air Exempted by D.E.P. Assessment Chart Item 28

Ancillary Facilities			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Recreational Pavilion	Kitchen Exhaust Fan	Occasional	Air Exempted by D.E.P. Assessment Chart Item 27 & 28
	Charcoal Grill		
Service Building H.V.A.C.	Roof Mounted Exhaust Fans	Continuous	
	Lab Room Exhaust Fans		
	Bathroom Exhaust Fans		
Miscellaneous Buildings H.V.A.C.	Vent/Exhaust Systems for:	Continuous	Air Exempted by D.E.P. Assessment Chart Item 28
	Service Building		
	Construction Building		
	Communications Building		
	I & E Building		
	Gardener's Shack		
	Overhaul Building		
	Oil & Paint Warehouse		
	Welding Shop		
	Switchyard Building		
	Chemical Storage Building		
	Storage Building		
M.C.C. Enclosure			
Control Building H.V.A.C.	Vent/Exhaust Systems for: Women's Toilet Men's Toilet	Continuous	Air Exempted by D.E.P. Assessment Chart Item 28

Miscellaneous Facilities Abandoned			
Equipment/Systems	Size/Source	Frequency of Operation	Justification
Auxiliary Boiler	Stack	Out of Service	Later
Fuel Oil	"A" Storage Tank BBL. "2" Storage Tank 125,000 BBL. "F" Storage Tank 125,000 BBL. "G" Storage Tank 125,000 BBL.	Out of Service Out of Service Out of Service Out of Service	Later
Fuel Treatment Area	Vanadium Inhibitor Storage Tank (90,000 Gal.) 6" Vent with Breather Demulsifier Storage Tank (2,000 Gal.) 4" Vent with Flame Arrestor	Out of Service	Insignificant V.O.C.
Palatka Units 1&2	Boiler	Out of Service	Later

ATTACHMENT PPNFS_9

**LIST OF EQUIPMENT/ACTIVITIES
REGULATED UNDER TITLE VI**

Attachment PPNFS_9.DOC

List of Equipment/Activities Regulated Under Title VI

The Putnam facility includes several enclosed air-conditioned office buildings, maintenance buildings, etc.. In addition, the facility maintains several refrigerators for the storage of food and laboratory chemicals. The plant maintains a purchase order (P.O.) with a service company that uses certified repair technicians for the servicing of all CFC-containing equipment on the plant property.

No plant equipment with CFC content of greater than 50 pounds.

ATTACHMENT PPNFS_10
ALTERNATIVE METHODS OF OPERATION

Alternative Methods of Operation

Combined-Cycle Units 1 and 2

The two combined-cycle units at the Putnam power plant site maybe operated up to 8760 hours per year at megawatt production rates from zero to 100% of maximum. The units currently burn primarily natural gas, with light distillate oil or bunker C oil (#6) as backup fuels. Per the existing site certification the maximum heat input to each combustion turbine (CT) shall neither exceed 968.3 mmBtu/hr while firing natural gas, nor 910.6 mmBtu/hr while firing light distillate oil (@ 85 deg. F).

Each CT is also equipped with duct burners (also known as afterburners) which may be fired on either natural gas, light distillate oil, or bunker C oil. Heat input rates while utilizing the duct burners are: 1218.3 while burning natural gas, and 1160.6 while burning oil.

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

The "normal" operating method for the combined cycle units is two combustion turbines and one steam turbine. However, the units may also be operated with only one combustion turbine supplying the one steam turbine

1a. Possible Scenarios

UNIT	FUEL	Heat Input per hour @ 85 deg. F
1GT1	100% GAS	968.3 mmBtu/hour
1GT1	100% OIL	910.3 mmBtu/hour
1GT2	100% GAS	968.3 mmBtu/hour
1GT2	100% OIL	910.3 mmBtu/hour
2GT1	100% GAS	968.3 mmBtu/hour
2GT1	100% OIL	910.3 mmBtu/hour
2GT2	100% GAS	968.3 mmBtu/hour
2GT2	100% OIL	910.3 mmBtu/hour

Please note that the heat input rates and heat input limitations will fluctuate with ambient temperatures.

ATTACHMENT PPNFS_12

**IDENTIFICATION OF ADDITIONAL
APPLICABLE REQUIREMENTS**

Florida Power & Light Company
Putnam Plant
Facility ID No.: 1070014
Putnam County

Title V Air Operation Permit Revision
FINAL Permit Revision No.: 1070014-004-AV

Permitting Authority:
State of Florida
Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulation
Title V Section

Mail Station #5505
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
Telephone: 850/488-0114
Fax: 850/922-6979

Title V Air Operation Permit Revision
FINAL Permit Revision No.: 1070014-004-AV

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Permittee:
Florida Power & Light
392 U.S. Highway 17 South
East Palatka, FL

FINAL Permit Revision No.: 1070014-004-AV
Facility ID No.: 1070014
SIC Nos.: 49 , 4911
Project: Title V Air Operation Permit Revision

This permit revision is for the operation of the Putnam Plant. This facility is located at US 17 South, East Palatka, Putnam County; UTM Coordinates: Zone 17, 443368.85 km East and 3277807.32 km North; Latitude: 29° 37' 44" North and Longitude: 81° 35' 6" West.

STATEMENT OF BASIS: This Title V air operation permit revision is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit revision:

Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
Appendix T, Heat Input vs. Ambient Temperature Curves
Appendix TV-3, Title V Conditions (version dated 04/30/99)
Appendix SS-1, Stack Sampling Facilities (version dated 10/07/96)
Table 297.310-1, Calibration Schedule (version dated 10/07/96)
Figure 1 - Summary Report-Gaseous and Opacity Excess Emission
and Monitoring System Performance Report (version dated 7/96)
Phase II Acid Rain Application/Compliance Plan received 12/6/95

Title V/IV Permit Effective Date: January 1, 1999
Permit Revision Effective Date: April 10, 2000
Renewal Application Due Date: July 5, 2003
Expiration Date: December 31, 2003

Howard L. Rhodes, Director
Division of Air Resources
Management

HLR/sms/wa

Section I. Facility Information.

Subsection A. Facility Description.

The facility consists of four combustion turbines, each with an associated inlet fogger and heat recovery steam generator equipped with duct burners, an auxiliary boiler, and unregulated emissions units. Each combustion turbine is a Westinghouse unit rated at 70 MW generating capacity (at 85 degrees F ambient temperature), with a maximum heat input for natural gas and fuel oil of 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively. The duct burners for each HRSG are rated at a maximum heat input of 250 mmBtu/hr, and are fired with natural gas and number 2 fuel oil. The auxiliary boiler is manufactured by VA-Power and has a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively.

Also included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

Based on the initial Title V permit application received June 12, 1996 and the Title V permit revision application received September 28, 1999, this facility is a major source of hazardous air pollutants (HAPs).

Subsection B. Summary of Emissions Unit ID Nos. and Brief Descriptions.

E.U. ID No.	Brief Description
003	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11.
004	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12.
005	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21.
006	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22.
007	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11.
008	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12.
009	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21.
010	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22.
011	Auxiliary Boiler.

{Note: The above emissions unit grouping accommodates the acid rain grouping.}

Unregulated Emissions Units and/or Activities	
012	Emergency Diesel Generator, Miscellaneous Mobile Equipment and Internal Combustion Engines
013	Painting of Plant Equipment and Non-halogenated Solvent Cleaning Operations

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s) on all correspondence, test report submittals, applications, etc.

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers
Appendix H-1, Permit History/ID Number Changes
Table 1-1, Summary of Air Pollutant Standards and Terms
Table 2-1, Summary of Compliance Requirements

These documents are on file with the permitting authority:

Initial Title V Permit Application received June 12, 1996.
Additional Information Request dated May 13, 1997.
Additional Information Response received August 15, 1997.
Letter dated August 26, 1997, changing the Responsible Official.
DEP Letter to US EPA Region 4 dated March 10, 1998
US EPA Region 4 letter to DEP received March 25, 1998
Initial Title V Air Operation Permit issued June 17, 1998.
Administrative Permit Correction to Initial Title V Air Operation Permit issued July 27, 1998.
Title V Permit Revision Application received September 28, 1999.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-3, TITLE V CONDITIONS, is a part of this permit.
{Permitting note: APPENDIX TV-3, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}
2. **Not Federally Enforceable.** General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. The permittee shall not cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.
[Rule 62-296.320(2), F.A.C.]
3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rule 62-296.320(4)(b)1. & 4, F.A.C.]
4. Prevention of Accidental Releases (Section 112(r) of CAA).
 - a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable ; and
 - b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.
[40 CFR 68]
5. Unregulated Emissions Units and/or Activities. Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit.
[Rule 62-213.440(1), F.A.C.]
6. Insignificant Emissions Units and/or Activities. Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit.
[Rules 62-213.440(1), 62-213.430(6), and 62-4.040(1)(b), F.A.C.]
7. **Not Federally Enforceable.** General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department. The owner or operator shall:
 - a. Tightly cover or close all VOC or OS containers when they are not in use.
 - b. Tightly cover all open tanks which contain VOC or OS when they are not in use.
 - c. Maintain all pipes, valves, fittings, etc., which handle VOC or OS in good operating condition.
 - d. Immediately confine and clean up VOC or OS spills and make sure wastes are placed in closed containers for reuse, recycling or proper disposal.
[Rule 62-296.320(1)(a), F.A.C.; Proposed by applicant in the initial Title V permit application received June 12, 1996]

8. Not Federally Enforceable. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

- a. The facility constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment.
- b. Maintenance of paved areas as needed.
- c. Regular mowing of grass and care of vegetation.
- d. Limiting access to plant property by unnecessary vehicles.
- e. Bagged chemical products are stored in weather-tight buildings until they are used.
- f. Spills of powdered chemical products are cleaned up as soon as practicable.
- g. Vehicles are restricted to slow speeds on the plant site.

[Rule 62-296.320(4)(c)2., F.A.C.; Proposed by applicant in the initial Title V permit application received June 12, 1996]

9. When appropriate, any recording, monitoring or reporting requirements that are time-specific shall be in accordance with the effective date of this permit, which defines day one.

[Rule 62-213.440, F.A.C.]

10. Statement of Compliance. The annual statement of compliance pursuant to Rule 62-213.440(3), F.A.C., shall be submitted within 60 (sixty) days after the end of the calendar year. {See condition No. 51., Appendix TV-3, Title V Conditions}

[Rule 62-214.420(11), F.A.C.]

{Permitting note: The statement must reflect the facility's operation and compliance prior to a "Permit Revision's effective date" and the facility's operation and compliance including and after a "Permit Revision's effective date".}

11. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Northeast District office:

Department of Environmental Protection, Northeast District Office
Air Section

7825 Baymeadows Way, Suite 200B

Jacksonville, FL 32256-7590

Telephone: 904/448-4300 Fax: 904/448-4363

12. Any reports, data, notifications, certifications and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency, Region 4

Air, Pesticides & Toxics Management Division

Air & EPCRA Enforcement Branch

Air Enforcement Section

61 Forsyth Street

Atlanta, GA 30303

Phone: 404/562-9155 Fax: 404/562-9163 or 404/562-9164

{Note: In this permit, citation of "PPSC PA 74-01" shall refer to Power Plant Siting Certification PA 74-01, ordered 10/16/74 and modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92}

Section III. Emissions Units and Conditions.

Subsection A. This section addresses the following emissions units.

003	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG11. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.)
004	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG12. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.)
005	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG21. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.)
006	Combustion Turbine for Combined Cycle Heat Recovery Steam Generator, HRSG22. This emissions unit consists of a Westinghouse combustion turbine, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves attached as Appendix T of this permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.)

{Permitting notes: These emissions units are regulated under Acid Rain, Phase II; Rule 62-210.300, F.A.C., Permits Required; Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92; and, Air Construction Permit No. 1070014-003-AC. Based on information submitted by the applicant in the Title V application, these emissions units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines. Each combustion turbine is exhausted through a heat recovery steam generator. Inlet foggers installed at the compressor inlet to each of the four CTs reduce the turbine inlet air temperature. The temperature reduction improves the heat rate and increases power due to the cooler/denser inlet air. Emissions units 003 and 004 began commercial operation in 1978. Emissions units 005 and 006 began commercial operation in 1977.}

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

Essential Potential to Emit (PTE) Parameters

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

Unit No.	mmBtu/hr Heat Input	Fuel Type
003, 004, 005, 006	(a)	Natural Gas
	(a)	Fuel Oil

a Heat input is limited at any given ambient temperature in accordance with the curves attached as Appendix T of this permit.

{Note: As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.}

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability.}

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

A.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
[Rule 62-297.310(2), F.A.C.]

A.3. Methods of Operation.

a. Fuels. The combustion turbines shall only be fired with number 2 or number 6 fuel oil or with natural gas.

b. Inlet Foggers. The four inlet foggers installed at the compressor inlet to each of the four combined cycle combustion turbines may operate up to 40,960 degree F-hours per year in aggregate (average 10,240 degree F-hours per unit per year).

The permittee shall monitor both the hours of operation for the inlet foggers and the degrees of cooling afforded by the inlet foggers. Computation of the degree-hour will be performed as follows:

Degree-hours = # hours inlet fogger operating time X degrees F of cooling

Degrees of Cooling shall be calculated by subtracting the fogged compressor inlet air temperature from the unfogged compressor inlet temperature (upstream of the fogger). The above calculation shall be performed for each hour of fogger operation. Calculation records shall be maintained on the plant site and made available for inspection upon request.

For each hour of oil operation on any combustion turbine during a calendar year, the allowable aggregate total inlet fogger operating degree-hour shall be reduced by 1.27 degree F-hours.
[Rule 62-213.410, F.A.C.; PPSC PA 74-01 condition 1.B.(i); and, 1070014-003-AC]

Emission Limitations and Standards

A.4. Sulfur Dioxide - Sulfur Content. The fuel oil sulfur content shall not exceed 0.7 percent by weight. See specific condition A.6.

[Rules 62-4.070(3) and 62-213.440, F.A.C., and PPSC PA 74-01 condition 1.B.(i)]

A.5. Visible Emissions. Visible emissions shall not exceed 20% opacity, except for one 6-minute period per hour during which opacity shall not exceed 27%.

[Rules 62-4.070(3) and 62-213.440, F.A.C., and PPSC PA 74-01 condition 1.B.(ii)]

Test Methods and Procedures

A.6. Sulfur Dioxide - Sulfur Content. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor upon each fuel delivery. See specific conditions A.4. and A.7.

[Rules 62-213.440 and 62-296.406(3), F.A.C.]

A.7. Fuel Sampling & Analysis - Sulfur. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-94, ASTM D4294-90(95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95 (or latest editions).

[Rules 62-4.070(3), 62-213.440 and 62-297.440, F.A.C.]

A.8. Visible Emissions. The permittee shall demonstrate compliance with the visible emissions limit by DEP Method 9. See specific condition D.6.

[Rules 62-4.070(3) and 62-213.440, F.A.C.]

Monitoring of Operations

A.9. Annual Tests Required - VE. Except as provided in specific conditions D.4 through D.5 of this permit, emission testing for visible emissions shall be performed annually, no later than September 30th of each year, except for units that are not operating because of scheduled maintenance outages and emergency repairs, which will be tested within thirty days of returning to service.

[Rules 62-4.070(3) and 62-213.440, F.A.C.]

A.10. Wind Restriction and Monitoring. The owner or operator shall burn fuel oil containing no more than 0.50% sulfur (by weight) when sustained winds exceed 20 miles per hour for any continuous period of three hours or longer. The owner or operator shall measure wind velocity and direction, using recognized methods and procedures, at hourly intervals in the plant vicinity, only for those hours during which any combustion turbine at the plant burns fuel oil containing more than 0.50% sulfur (by weight). The owner or operator shall quarterly report wind data, or shall report that no fuel oil containing more than 0.50% sulfur (by weight) was burned, no later than the thirtieth day following the end of each calendar quarter.

[PPSC PA 74-01, condition 2]

Excess Emissions

A.11. Excess emissions resulting from malfunction shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

[Rule 62-210.700(1), F.A.C.]

A.12. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized.

[Rule 62-210.700(2), F.A.C.]

Common Conditions

A.13. These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

Subsection B. This section addresses the following emissions units.

007	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG11. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr.
008	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG12. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr.
009	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG21. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr.
010	Duct burners for Combined Cycle Heat Recovery Steam Generator, HRSG22. This emissions unit consists of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr.

{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required and Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92. These emissions units are subject to 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units. Each heat recovery steam generator has two stacks that exhaust emissions from the associated combustion turbine and the duct burners. Emissions units 007 and 008 began commercial operation in 1978. Emissions units 009 and 010 began commercial operation in 1977.}

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

Essential Potential to Emit (PTE) Parameters

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

Unit No.	mmBtu/hr Heat Input	Fuel Type
007, 008, 009, 010	250	Natural Gas
	250	Fuel Oil

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

{Permitting note: The heat input limitations have been placed in each permit to identify the capacity of each unit for the purposes of confirming that emissions testing is conducted within 90 to 100 percent of the unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate emission limits and to aid in determining future rule applicability.}

B.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
 [Rule 62-297.310(2), F.A.C.]

B.3. Methods of Operation - Fuels. The duct burners shall only be fired with number 2 fuel oil or with natural gas.
[Rule 62-213.410, F.A.C., PPSC PA 74-01 condition 1.C.(i)]

Emission Limitations and Standards

B.4. Sulfur Dioxide - Sulfur Content. The fuel oil sulfur content shall not exceed 0.5 percent by weight. See specific condition B.7.
[Rules 62-4.070(3) and 62-213.440, F.A.C., PPSC PA 74-01 condition 1.C.(i), and 40 CFR 60.42b]

B.5. Visible Emissions. Visible emissions shall not exceed 20% opacity (6-minute average), except for one 6-minute period per hour during which opacity shall not exceed 27%. The opacity standards apply at all times, except during periods of startup, shutdown or malfunction.
[Rules 62-4.070(3) and 62-213.440, F.A.C., PPSC PA 74-01 condition 1.C.(ii)(a), and 40 CFR 60.43b and 60.46b(a)]

B.6. Nitrogen Oxides. Nitrogen oxide emissions (expressed as NO₂) shall not exceed 0.20 lb/mmBtu while burning natural gas and distillate oil. The nitrogen oxide standards apply at all times including periods of startup, shutdown, or malfunction.
[40 CFR 60.44b and PPSC PA 74-01 (modification of 5/28/92)]

Test Methods and Procedures

B.7. Sulfur Dioxide - Sulfur Content. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by maintaining fuel receipts as described in 40 CFR 60.49b(r). See specific conditions B.4. and B.14.
[Rules 62-213.440 and 62-296.406(3), F.A.C., and 40 CFR 60.42b]

B.8. VE Test Methods. To determine compliance with the opacity limits, the owner or operator shall conduct tests using EPA Method 9.
[40 CFR 60.46b(d)(7)]

B.9. Test Methods For Nitrogen Oxides. Compliance with the nitrogen oxides emission limit shall be determined through testing using EPA reference methods 7E and 3A, of 40 CFR part 60 appendix A.
[40 CFR 60.46b, PPSC PA 74-01 (modification of 5/28/92)]
{Note: PPSC PA 74-01 (modification of 5/28/92) allows use of EPA methods 7E and 3A instead of EPA method 20.}

Monitoring of Operations

B.10. Emission Tests Required - VE and NO_x. Except as provided in specific conditions D.4 through D.5 of this permit, emission testing shall be conducted as follows: Emission testing for visible emissions shall be performed annually. Emission testing for nitrogen oxides shall be performed prior to renewal, except that an annual test for nitrogen oxides shall be performed each year that fuel oil is fired in these units for more than 400 hours. Testing shall be completed no later than September 30th of each year required, except for units that are not operating

because of scheduled maintenance outages and emergency repairs, which will be tested within thirty days of returning to service.

[Rules 62-4.070(3) and 62-213.440, F.A.C.]

B.11. Emission Monitoring For VE. Prior to burning fuel oil in these emissions units, the owner or operator shall install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions discharged to the atmosphere and record the output of the system. This system shall thenceforth be operated whenever fuel oil is burned in these emissions units.

[40 CFR 60.48b(a)]

B.12. CEMS Required by Power Plant Siting. The owner or operator shall maintain a continuous emission monitoring system (CEMS) for opacity and nitrogen oxides on one of the paired stacks for each combined cycle unit.

{The PPSC requires monitors on one stack each of CT/HRSG 1x and 2x, for a total of two stacks that must be monitored. The owner currently operates opacity monitors to satisfy the PPSC requirement to operate the CEMS for opacity. The NOx monitors installed and maintained pursuant to 40 CFR 75 satisfy the PPSC requirement to operate the CEMS for NOx.}

[Rule 62-213.440, F.A.C., PPSC PA 74-01 condition 4]

Reporting And Record Keeping Requirements

B.13. Pursuant to 40 CFR 60.49b Reporting And Record Keeping Requirements.

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for distillate oil and natural gas for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

The owner or operator shall maintain records of opacity (required by NSPS whenever fuel oil is burned in these emissions units. See condition B.11 of this permit).

The owner or operator shall maintain records of the following information for each steam generating unit operating day:

- (1) Calendar date.
- (2) The average hourly nitrogen oxides emission rates (expressed as NO₂) (lb/million Btu heat input) measured or predicted.
- (3) The 30-day average nitrogen oxides emission rates (lb/million Btu heat input) calculated at the end of each steam generating unit operating day from the measured or predicted hourly nitrogen oxide emission rates for the preceding 30 steam generating unit operating days.
- (4) Identification of the steam generating unit operating days when the calculated 30-day average nitrogen oxides emission rates are in excess of the nitrogen oxides emissions standards under 40 CFR 60.44b, with the reasons for such excess emissions as well as a description of corrective actions taken.

- (5) Identification of the steam generating unit operating days for which pollutant data have not been obtained, including reasons for not obtaining sufficient data and a description of corrective actions taken.
- (6) Identification of the times when emission data have been excluded from the calculation of average emission rates and the reasons for excluding data.
- (7) Identification of "F" factor used for calculations, method of determination, and type of fuel combusted.

The owner or operator is required to submit excess emission reports for any calendar quarter during which there are excess emissions from the affected facility. If there are no excess emissions during the calendar quarter, the owner or operator shall submit a report semiannually stating that no excess emissions occurred during the semiannual reporting period. For the purpose of the opacity limitation, excess emissions are defined as all 6-minute periods during which the average opacity exceeds the opacity standards.

[40 CFR 60.49b(d), (f), (g)(1)-(7) and (h)]

B.14. Fuel Receipts Required. The owner or operator of an affected facility who elects to demonstrate that the affected facility combusts only very low sulfur oil shall obtain and maintain at the affected facility fuel receipts from the fuel supplier which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b:

Distillate oil means fuel oils that contain 0.05 weight percent nitrogen or less and comply with the specifications for fuel oil numbers 1 and 2, as defined by the American Society of Testing and Materials in ASTM D396-78, Standard Specifications for Fuel Oils (incorporated by reference-see 40 CFR 60.17).

Very low sulfur oil means an oil that contains no more than 0.5 weight percent sulfur or that, when combusted without sulfur dioxide emission control, has a sulfur dioxide emission rate equal to or less than 215 ng/J (0.5 lb/million Btu) heat input.

For the purposes of this section, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil. Quarterly reports shall be submitted to the Department certifying that only very low sulfur oil meeting this definition was combusted in the affected facility during the preceding quarter.

[40 CFR 60.45b, 60.47b and 60.49b(r)]

Common Conditions

B.15. These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

B.16. These emissions units are also subject to conditions **E.1** through **E.5** contained in **Subsection E. NSPS Common Conditions**, except as specified in that section.

Subsection C. This section addresses the following emissions unit.

011	This emissions unit consists of an auxiliary boiler is manufactured by VA-Power with a maximum heat input for natural gas and number 2 fuel oil of 16.275 mmBtu/hr and 14.28 mmBtu/hr, respectively.
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{Permitting notes: This emissions unit is regulated under Rule 62-210.300, F.A.C., Permits Required. This emissions unit is subject to 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units. Emissions unit 011 began commercial operation in 1993. The unit was previously regulated under Power Plant Siting Certification No. PA 74-01 ordered 10/16/74, and the modified conditions of PA 74-01 modified 5/20/80, 3/15/84, 7/16/91 and 5/28/92. However, the only applicable condition was in conflict with the NSPS and has been superseded by this permit.}

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

Essential Potential to Emit (PTE) Parameters

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

Unit No.	mmBtu/hr Heat Input	Fuel Type
011	16.275	Natural Gas
	14.28	Number 2 Fuel Oil

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

C.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition **D.9.**
[Rule 62-297.310(2), F.A.C.]

C.3. Methods of Operation - Fuels. The auxiliary boiler shall only be fired with number 2 fuel oil or with natural gas.
[Rule 62-213.410, F.A.C.]

Emission Limitations and Standards

C.4. Pursuant to 40 CFR 60.42c Standard For Sulfur Dioxide.

The owner or operator shall not combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. Compliance with the fuel oil sulfur limit shall be determined based on a certification from the fuel supplier, as described under 40 CFR 60.48c(f)(1) (see specific condition C.7.). The fuel oil sulfur limit applies at all times, including periods of startup, shutdown, and malfunction.

[40 CFR 60.42c(d), (h), (i) and (j)]

Monitoring of Operations

C.5. Emission Monitoring For Sulfur Dioxide.

As an alternative to operating a CEMS at the outlet of the steam generating unit, the owner or operator shall determine the average SO₂ emission rate by sampling the fuel prior to combustion. Fuel sampling shall be conducted as follows:

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted. The owner or operator of the affected facility shall analyze the oil sample to determine the sulfur content of the oil. If a partially empty fuel tank is refilled, a new sample and analysis of the fuel in the tank would be required upon filling. Results of the fuel analysis taken after each new shipment of oil is received shall be used as the daily value when calculating the 30-day rolling average until the next shipment is received. If the fuel analysis shows that the sulfur content in the fuel tank is greater than 0.5 weight percent sulfur, the owner or operator shall ensure that the sulfur content of subsequent oil shipments is low enough to cause the 30-day rolling average sulfur content to be 0.5 weight percent sulfur or less.

[40 CFR 60.46c(d)(2)]

Reporting And Record Keeping Requirements

C.6. Pursuant to 40 CFR 60.48c Reporting And Record Keeping Requirements.

For any period in which fuel oil is combusted, the owner or operator shall submit quarterly reports to the Department. Each subsequent quarterly report shall be postmarked by the 30th day following the end of the reporting period.

The owner or operator shall keep records and submit quarterly reports including the following information related to the combustion of fuel oil, as applicable.

- (1) Calendar dates covered in the reporting period.
- (2) Each 30-day average SO₂ emission rate (lb/million Btu), or 30-day average sulfur content (weight percent), calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
- (3) Each 30-day average percent of potential SO₂ emission rate calculated during the reporting period, ending with the last 30-day period in the quarter; reasons for any noncompliance with the emission standards; and a description of corrective actions taken.
- (4) Identification of any steam generating unit operating days for which SO₂ or diluent (oxygen or carbon dioxide) data have not been obtained by an approved method for at least 75 percent of the operating hours; justification for not obtaining sufficient data; and a description of corrective actions taken.
- (5) Identification of any times when emissions data have been excluded from the calculation of average emission rates; justification for excluding data; and a description of corrective actions taken if data have been excluded for periods other than those during which oil was not combusted in the steam generating unit.

- (6) Identification of the F factor used in calculations, method of determination, and type of fuel combusted.
- (7) Identification of whether averages have been obtained based on CEMS rather than manual sampling methods.
- (11) If fuel supplier certification is used to demonstrate compliance, records of fuel supplier certification as described under paragraph (f)(1) of this section, as applicable. In addition to records of fuel supplier certifications, the quarterly report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the quarter.

[40 CFR 60.48c(d), (e)(1)-(7) and (e)(11)]

C.7. Fuel Supplier Certification and Fuel Records. The owner or operator shall maintain records of fuel supplier certification. Fuel supplier certification shall include the following information:

- (i) The name of the oil supplier; and
- (ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil:

Distillate oil means fuel oil that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, "Standard Specification for Fuel Oils" (incorporated by reference-see 40 CFR 60.17).

The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

[40 CFR 60.48c(f)(1) and (g)]

Common Conditions

C.8. These emissions units are also subject to conditions **D.1** through **D.13** contained in **Subsection D. Common Conditions.**

C.9. These emissions units are also subject to conditions **E.1** through **E.5** contained in **Subsection E. NSPS Common Conditions**, except as specified in that section.

Subsection D. Common Conditions.

E.U. ID No.	Brief Description
003, 004, 005, 006	Combustion turbines for combined cycle heat recovery steam generators, HRSG11 through HRSG22.
007, 008, 009, 010	Duct burners for combined cycle heat recovery steam generators, HRSG11 through HRSG22.
011	Auxiliary boiler manufactured by VA-Power.

The following conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

D.1. Hours of Operation. The emissions units may operate continuously, i.e., 8,760 hours/year. [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

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

D.2. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

D.3. Determination of Process Variables.

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

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

[Rule 62-297.310(5), F.A.C.]

D.4. Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required. {Note: The provisions of this condition are numbered according to the rule. Provisions of the rule which are not applicable to this facility have been omitted, but the numbering of the rule has been preserved.}

(a) General Compliance Testing.

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

- a. Did not operate; or
- b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

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

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

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

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

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

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

D.5. When VE Tests Not Required. By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

- a. only gaseous fuel(s); or

- b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or
- c. only liquid fuel(s) for less than 400 hours per year.

[Rule 62-4.070(3), F.A.C.]

Test Methods and Procedures

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

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

1. EPA Method 9, Section 2.4, Recording Observations. Opacity observations shall be made and recorded by a certified observer at sequential fifteen second intervals during the required period of observation.
2. EPA Method 9, Section 2.5, Data Reduction. For a set of observations to be acceptable, the observer shall have made and recorded, or verified the recording of, at least 90 percent of the possible individual observations during the required observation period. For single-valued opacity standards (e.g., 20 percent opacity), the test result shall be the highest valid six-minute average for the set of observations taken. For multiple-valued opacity standards (e.g., 20 percent opacity, except that an opacity of 40 percent is permissible for not more than two minutes per hour) opacity shall be computed as follows:
 - a. For the basic part of the standard (i.e., 20 percent opacity) the opacity shall be determined as specified above for a single-valued opacity standard.
 - b. For the short-term average part of the standard, opacity shall be the highest valid short-term average (i.e., two-minute, three-minute average) for the set of observations taken.

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

[Rule 62-297.401, F.A.C.]

D.7. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be

obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

D.8. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

D.9. Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. For emissions units 003, 004, 005 and 006, the maximum heat input (permitted capacity) at any given ambient temperature shall be as described by the curves attached as Appendix T of this permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

D.10. Applicable Test Procedures.

(a) Required Sampling Time.

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

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

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

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

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

[Rule 62-297.310(4), F.A.C.]

D.11. Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling

Facilities, attached to this permit.
[Rule 62-297.310(6), F.A.C.]

Record Keeping and Reporting Requirements

D.12. Malfunctions - Notification. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the DEP Northeast District's Air Section in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the DEP Northeast District's Air Section.
[Rule 62-210.700(6), F.A.C.]

D.13. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the DEP Northeast District's Air Section on the results of each such test.
- (b) The required test report shall be filed with the DEP Northeast District's Air Section as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the DEP Northeast District's Air Section to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA or DEP Method 9 test, shall provide the following information:
1. The type, location, and designation of the emissions unit tested.
 2. The facility at which the emissions unit is located.
 3. The owner or operator of the emissions unit.
 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 8. The date, starting time and duration of each sampling run.
 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
 10. The number of points sampled and configuration and location of the sampling plane.
 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
 12. The type, manufacturer and configuration of the sampling equipment used.
 13. Data related to the required calibration of the test equipment.
 14. Data on the identification, processing and weights of all filters used.
 15. Data on the types and amounts of any chemical solutions used.
 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.

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

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

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

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

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

Subsection E. NSPS Common Conditions.

E.U. ID No.	Brief Description
007, 008, 009, 010	Duct burners for combined cycle heat recovery steam generators, HRSG11 through HRSG22.
011	Auxiliary boiler manufactured by VA-Power.

{Note: The emissions units above are subject to the following conditions from 40 CFR 60 Subpart A, General Provisions. For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee. The 40 CFR 60 term "owner and operator," means "permittee" in this permit.}

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

E.1. Pursuant to 40 CFR 60.7 Notification And Record Keeping.

(a) Any owner or operator subject to the provisions of this part shall furnish the Administrator written notification as follows:

(4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

(b) The owner or operator subject to the provisions of this part shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

(c) **(This section applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This section does not apply to emissions unit 011.)** The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report (excess emissions are defined in applicable subparts) and/or a summary report form (see 40 CFR 60.7(d)) to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

(d) The summary report form shall contain the information and be in the format shown in Figure 1 unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

[See Attached Figure 1-Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance]

(e)(1) Notwithstanding the frequency of reporting requirements specified in paragraph (c) of this section, an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For one full year (e.g., four quarterly or twelve monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in this subpart and the applicable standard; and

(iii) The Administrator does not object to reduced frequency of reporting for the affected facility, as provided in paragraph (e)(2) of this section.

(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after

receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in paragraphs (e)(1) and (e)(2) of this section.

(f) The owner or operator subject to the provisions of this part shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part recorded in a permanent form suitable for inspection. The file shall be retained for at least five years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7 and Rule 62-213.440(1)(b)2.b., F.A.C.]

E.2. Pursuant to 40 CFR 60.8 Performance Tests.

(b) Performance tests shall be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart, except as otherwise authorized by an approved alternative method.

(c) Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

(f) Unless otherwise specified in the applicable subpart, each performance test shall consist of three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the three runs shall apply. In the event that a sample is accidentally lost or conditions occur in which one of the three runs must be discontinued because of forced shutdown, failure of an irreplaceable portion of the sample train, extreme meteorological conditions, or other circumstances, beyond the owner or operator's control, compliance may, upon the Administrator's approval, be determined using the arithmetic mean of the results of the two other runs.

[40 CFR 60.8]

E.3. Pursuant to 40 CFR 60.11 Compliance With Standards And Maintenance Requirements.

- (a) Compliance with standards in this part, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.
- (b) Compliance with opacity standards in this part shall be determined by conducting observations in accordance with Reference Method 9 in appendix A of this part, any alternative method that is approved by the Administrator, or as provided in 40 CFR 60.11(e)(5).
- (c) The opacity standards set forth in this part shall apply at all times except during periods of startup, shutdown, malfunction, and as otherwise provided in the applicable standard.
- (d) At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(5) **(This paragraph applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This paragraph does not apply to emissions unit 011.)** The owner or operator of an affected facility subject to an opacity standard may submit, for compliance purposes, continuous opacity monitoring system (COMS) data results produced during any performance test required under 40 CFR 60.8 in lieu of Method 9 observation data. If an owner or operator elects to submit COMS data for compliance with the opacity standard, he shall notify the Administrator of that decision, in writing, at least 30 days before any performance test required under 40 CFR 60.8 is conducted. Once the owner or operator of an affected facility has notified the Administrator to that effect, the COMS data results will be used to determine opacity compliance during subsequent tests required under 40 CFR 60.8 until the owner or operator notifies the Administrator, in writing, to the contrary. For the purpose of determining compliance with the opacity standard during a performance test required under 40 CFR 60.8 using COMS data, the minimum total time of COMS data collection shall be averages of all 6-minute continuous periods within the duration of the mass emission performance test. Results of the COMS opacity determinations shall be submitted along with the results of the performance test required under 60.8. The owner or operator of an affected facility using a COMS for compliance purposes is responsible for demonstrating that the COMS meets the requirements specified in 40 CFR 60.13(c), that the COMS has been properly maintained and operated, and that the resulting data have not been altered in any way. If COMS data results are submitted for compliance with the opacity standard for a period of time during which Method 9 data indicates noncompliance, the Method 9 data will be used to determine opacity compliance. [40 CFR 60.11]

E.4. Pursuant to 40 CFR 60.12 Circumvention.

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a

standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

E.5. Pursuant to 40 CFR 60.13 Monitoring Requirements. (This condition applies to emissions units 007, 008, 009, and 010 only in the event they are fired with fuel oil. This condition does not apply to emissions unit 011.)

(a) For the purposes of this section, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of this section upon promulgation of performance specifications for continuous monitoring systems under appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

(c) If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under 40 CFR 60.11(e)(5), he/she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40 CFR 60 before the performance test required under 40 CFR 60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under 40 CFR 60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40 CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under 40 CFR 60.8 and as described in 40 CFR 60.11(e)(5), shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40 CFR 60.13(c) at least 10 days before the performance test required under 40 CFR 60.8 is conducted.

(2) Except as provided in 40 CFR 60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

(d)(1) Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.

(2) Unless otherwise approved by the Administrator, the following procedures shall be followed for continuous monitoring systems measuring opacity of emissions. Minimum procedures shall include a method for producing a simulated zero opacity condition and an upscale (span) opacity condition using a certified neutral density filter or other related technique

to produce a known obscuration of the light beam. Such procedures shall provide a system check of the analyzer internal optical surfaces and all electronic circuitry including the lamp and photo detector assembly.

(e) Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40 CFR 60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:

(1) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring opacity of emissions shall complete a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

(2) All continuous monitoring systems referenced by 40 CFR 60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

(f) All continuous monitoring systems or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of appendix B of 40 CFR 60 shall be used.

(g) When the effluents from a single affected facility or two or more affected facilities subject to the same emission standards are combined before being released to the atmosphere, the owner or operator may install applicable continuous monitoring systems on each effluent or on the combined effluent. When the affected facilities are not subject to the same emission standards, separate continuous monitoring systems shall be installed on each effluent. When the effluent from one affected facility is released to the atmosphere through more than one point, the owner or operator shall install an applicable continuous monitoring system on each separate effluent unless the installation of fewer systems is approved by the Administrator. When more than one continuous monitoring system is used to measure the emissions from one affected facility (e.g., multiple breechings, multiple outlets), the owner or operator shall report the results as required from each continuous monitoring system.

(h) Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in 40 CFR 60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorder during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit (e.g., rounded to the nearest 1 percent opacity).

[40 CFR 60.13]

Section IV. This section is the Acid Rain Part.

Operated by: Florida Power and Light Company
ORIS code: 6246

Subsection A. This subsection addresses Acid Rain, Phase II.

The emissions units listed below are regulated under Acid Rain, Phase II.

E.U. ID No.	Brief Description
003 & 007	Combined Cycle Heat Recovery Steam Generator, HRSG11
004 & 008	Combined Cycle Heat Recovery Steam Generator, HRSG12
005 & 009	Combined Cycle Heat Recovery Steam Generator, HRSG21
006 & 010	Combined Cycle Heat Recovery Steam Generator, HRSG22

A.1. The Phase II permit application(s) submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain unit(s) must comply with the standard requirements and special provisions set forth in the application(s) listed below:

- a. DEP Form No. 62-210.900(1)(a), dated 07/01/95.
 [Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Sulfur dioxide (SO₂) allowance allocations for each Acid Rain unit are as follows:

E.U. ID No.	EPA ID	Year	2000	2001	2002	2003
003 & 007	HRSG11	SO₂ allowances, under Table 2 or 3 of 40 CFR Part 73	1629*	1629*	1629*	1629*
004 & 008	HRSG12	SO₂ allowances, under Table 2 or 3 of 40 CFR Part 73	1629*	1629*	1629*	1629*

E.U. ID No.	EPA ID	Year	2000	2001	2002	2003
005 & 009	HRSG21	SO2 allowances, under Table 2 or 3 of 40 CFR Part 73	1555*	1555*	1555*	1555*
006 & 010	HRSG22	SO2 allowances, under Table 2 or 3 of 40 CFR Part 73	1555*	1555*	1555*	1555*

* The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the US EPA under Table 2 or 3 of 40 CFR 73.

A.3. Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.

1. No permit revision shall be required for increase in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
2. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
3. Allowances shall be accounted for under the Federal Acid Rain Program.

[Rule 62-213.440(1)(c), F.A.C.]

A.4. Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62- 214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, Fast-Track Revisions of Acid Rain Parts.

[Rule 62-213.413, F.A.C.]

A.5. Comments, notes, and justifications: None

ATTACHMENT PPNFS_14
COMPLIANCE REPORT AND PLAN

**Attachment PPNFS_14.DOC
Putnam Plant
Compliance Report and Plan**

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

ATTACHMENT PPNFS_15
COMPLIANCE CERTIFICATION



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)

<input checked="" type="checkbox"/> Annual Requirement (Partial)	<input type="checkbox"/> Transfer of Permit	<input type="checkbox"/> Permanent Facility Shutdown
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REPORTING PERIOD*	REPORT DEADLINE**
January 1 through March 6 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: PUTNAM PLANT Facility ID No. 1070014 County: PUTNAM

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

X 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.

 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.

S.D. Stone FOR S.D. Stone
(Signature of Title V Source Responsible Official)

3/6/03
(Date)

Name: Scott Stone

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.

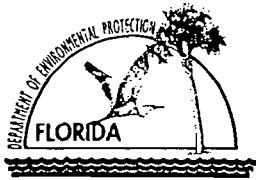
Nancy M. Kierspe
(Signature of Acid Rain Source Designated Representative)

4-7-03
(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).}



Department of Environmental Protection

Division of Air Resource Management

RESPONSIBLE OFFICIAL NOTIFICATION FORM

Note: A responsible official is not necessarily a designated representative under the Acid Rain Program. To become a designated representative, submit a certificate of representation to the U.S. Environmental Protection Agency (EPA) in accordance with 40 CFR Part 72.24.

Identification of Facility

1. Facility Owner/Company Name: Florida Power & Light Co.	
2. Site Name: Putnam	3. County: Putnam
4. Title V Air Operation Permit/Project No. (leave blank for initial Title V applications):	

Notification Type (Check one or more)

<input type="checkbox"/> INITIAL:	Notification of responsible officials for an initial Title V application.
<input type="checkbox"/> RENEWAL:	Notification of responsible officials for a renewal Title V application.
<input checked="" type="checkbox"/> XCHANGE:	Notification of change in responsible official(s).
	Effective date of change in responsible official(s) 4/15/03

Primary Responsible Official

1. Name and Position Title of Responsible Official: Scott D. Stone General Manager
2. Responsible Official Mailing Address: Organization/Firm: FPL Street Address: 392 US Highway 17 S. City: East Palatka State: FL Zip Code: 32131
3. Responsible Official Telephone Numbers: Telephone: (386) 329 - 4644 Fax: (386) 329 - 4699
4. Responsible Official Qualification (Check one or more of the following options, as applicable): <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.
5. Responsible Official Statement: <i>I, the undersigned, am a responsible official, as defined in Rule 62-210.200, F.A.C., of the Title V source addressed in this notification. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this notification are true, accurate and complete. Further, I certify that I have authority over the decisions of all other responsible officials, if any, for purposes of Title V permitting.</i> Signature: <u><i>Scott D. Stone</i></u> Date: <u><i>4/14/03</i></u>

Additional Responsible Official

1. Name and Position Title of Responsible Official: John G. Kahl, Plant Maintenance Leader
2. Responsible Official Mailing Address: Organization/Firm: FPL Street Address: 392 US Highway 17 S. City: East Palatka State: FL Zip Code: 32131
3. Responsible Official Telephone Numbers: Telephone: (386) 329 - 4607 Fax: (386) 329 - 4699
4. Responsible Official Qualification <i>(Check one or more of the following options, as applicable):</i> <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.

Additional Responsible Official

1. Name and Position Title of Responsible Official: David H. Hope Instrument & Control/Electrical Plant Leader
2. Responsible Official Mailing Address: Organization/Firm: FPL Street Address: 392 US Highway 17 S. City: East Palatka State: FL Zip Code: 32131
3. Responsible Official Telephone Numbers: Telephone: (386) 329 - 4646 Fax: (386) 329 - 4699
4. Responsible Official Qualification <i>(Check one or more of the following options, as applicable):</i> <input checked="" type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input type="checkbox"/> The designated representative at an Acid Rain source.

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

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input checked="" type="checkbox"/> 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).</p> <p><input type="checkbox"/> 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.</p> <p><input type="checkbox"/> 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.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): EU 003 Combustion Turbine for HRSG 1 1, EU004 Combustion Turbine for HRSG 1 2, EU005 Combustion Turbine for HRSG 2 1, EU006 Combustion Turbine for HRSG 2 2</p>			
<p>4. Emissions Unit Identification Number: 003, 004, 005, 006</p> <p style="text-align: center;"><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>			
5. Emissions Unit Status Code: A	6. Initial Startup Date: 4/24/1978	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [YES]
<p>Emissions Unit Comment: (Limit to 500 Characters) These emissions unit consists of Westinghouse CTs, rated at 70 MW generating capacity (at 85 degrees F ambient temperature). Heat input for this unit may vary at different ambient temperatures in accordance with the curves in current Title V permit. (As an example, maximum heat input for natural gas or fuel oil at 85 degrees F ambient temperature is 968.3 mmBtu/hr and 910.6 mmBtu/hr, respectively.) These emission units are regulated together in one section of the existing Title V permit.</p>			

Emissions Unit Information Section _ Combustion Turbines EU003-006

Emissions Unit Control Equipment

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

N/A

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer: **Westinghouse**

Model Number: **W501B-5A**

2. Generator Nameplate Rating: **70** 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:	968.3	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):		
<p>Heat input varies at different ambient temp see the curves attached to the existing Title V permit. (ie max heat input for nat gas or fuel oil at 85^o F ambient temp is 968.3 mmBtu/hr & 910.6 mmBtuhr)</p>		

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

List of Applicable Regulations

See PPN Reg list	

**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? [EU 1-EU 4, Stack 1]		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Unit can exhaust through a simple cycle by-pass stack and HRSG stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Combustion turbine EU 003 and duct burners in HRSG EU 007			
5. Discharge Type Code: V	6. Stack Height: 73 feet	7. Exit Diameter: 10.34 feet	
8. Exit Temperature: 327.6 °F	9. Actual Volumetric Flow Rate: 968,628.2 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): 490.957 North (km): 3277.732			
14. Emission Point Comment (limit to 200 characters): EU 003 through EU 006 are gas turbines capable of firing both nat gas & #2 fuel oil. EU 003 & EU 007 share common emission points [stacks]. Refer to attachment PPNFS_3 for clarification.			

**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? [EU 1-EU 4, Stack 2]		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Unit can exhaust through a simple cycle by-pass stack and HRSG stack			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Combustion turbine EU 004 and duct burners in HRSG EU 008			
6. Discharge Type Code: V	6. Stack Height: 73 feet	7. Exit Diameter: 10.34 feet	
8. Exit Temperature: 327.6 °F	9. Actual Volumetric Flow Rate: 1,009,847.1 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): 490.957 North (km): 3277.759			
14. Emission Point Comment (limit to 200 characters): EU 003 through EU 006 are gas turbines capable of firing both nat gas & #2 fuel oil. EU 004 & EU 008 share common emission points [stacks]. Refer to attachment PPNFS_3 for clarification.			

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

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Natural Gas		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: Million Cubic Feet
4. Maximum Hourly Rate: 0.922	5. Maximum Annual Rate: 8,077	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.031	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): Data only applicable for the CT operating without the afterburners while firing natural gas.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Light distillate oil		
3. Source Classification Code (SCC): 2-02-001-02		3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 6.7	5. Maximum Annual Rate: 58,692	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.7	8. Maximum % Ash: 0.05	8. Million Btu per SCC Unit: 136
9. Segment Comment (limit to 200 characters): Data only applicable for the CT operating without the afterburners while firing distillate fuel.		

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

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): No. 6 residual oil		
6. Source Classification Code (SCC): 2-02-005-01		3. SCC Units: Million Cubic Feet
4. Maximum Hourly Rate: 5.99	6. Maximum Annual Rate: 52,479.3	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.7	8. Maximum % Ash: 0.1	10. Million Btu per SCC Unit: 152
10. Segment Comment (limit to 200 characters): Data only applicable for the CT operating without the afterburners while firing No. 6 residual oil.		

**F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2	N/A	N/A	EL
NOx	N/A	N/A	NS
CO	N/A	N/A	NS
PM	N/A	N/A	NS
PM10	N/A	N/A	NS
VOC	N/A	N/A	NS
PB	N/A	N/A	NS
H148	N/A	N/A	NS
H133	N/A	N/A	NS
H095	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: SO2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 647.8 lb/hour 2,827.4 tons/year	4. Synthetically Limited? [NO]
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 0.7 % sulfur oil Reference: Site certification #74-01	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 46,270 lb/hr oil x 0.7 % S oil x 2 lb SO2/lb S = 647.8 lb/hr 647.8 lb/hour x 8760 hr/yr / 2000 lb/ton = 2,837.4 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Potential emissions based on distillate oil firing	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 647.8 lbs/hr	4. Equivalent Allowable Emissions: 647.8 lb/hour 2,837.4 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):	

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27% Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters): Refer to Condition of Certification No. 1.B(ii).	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

2. Visible Emissions Subtype: VE100	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): FDEP Rule 62-210.700(1). Allowed for 2 hours (120 minutes) per 24 hours for start-up, shutdown and malfunction	

Emissions Unit Information Section _ Combustion Turbines EU003-006

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

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Manufacturer: NO_x = TECO Model Number: NO_x = 42 Serial Number: NO_x EU 003 = 42D-49802-284, EU 005 = 42D-49804-284 EU 004 = 42D-49812-284, EU 006 = 42D-49809-284	
5. Installation Date: 11/01/94	6. Performance Specification Test Date: 12/18/94
7. Continuous Monitor Comment (limit to 200 characters): The CO2 monitor provides percent O2 data to the NOx monitoring system in accordance with 40 CFR 75 Appx E, equation E-3. Please note that the EU is a gas-fired unit, per 40 CFR 72.2	

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

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: EM	2. Pollutant(s): CO₂
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Manufacturer: CO₂ = Ca Analytical Model Number: CO₂ = 3300 Serial Number: CO₂ EU 003 = N4C0319T, EU 005 = N4C0321T EU 004 = N4C0310T, EU 006 = N4C0307T	
5. Installation Date: 11/01/94	6. Performance Specification Test Date: 12/18/94
7. Continuous Monitor Comment (limit to 200 characters): CO2 monitor provides % O2 data to NOx monitoring sys in accordance with 40 CFR 75 Appx E, eqn E-3. CO2 is calculated per 40 CFR 75 Appx G eqn G-4 due to NO flow meter. EU is gas-fired unit per 40 CFR 72.2	

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

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: PPNEU1_1 [] Not Applicable
2. Fuel Analysis or Specification [X] Attached, Document ID: PPNU1_2 [] Not Applicable [] Waiver Requested
3. Detailed Description of Control Equipment [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
4. Description of Stack Sampling Facilities [X] Attached, Document ID: PPNU1_4 [] 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: PPNU1_6 [] 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:

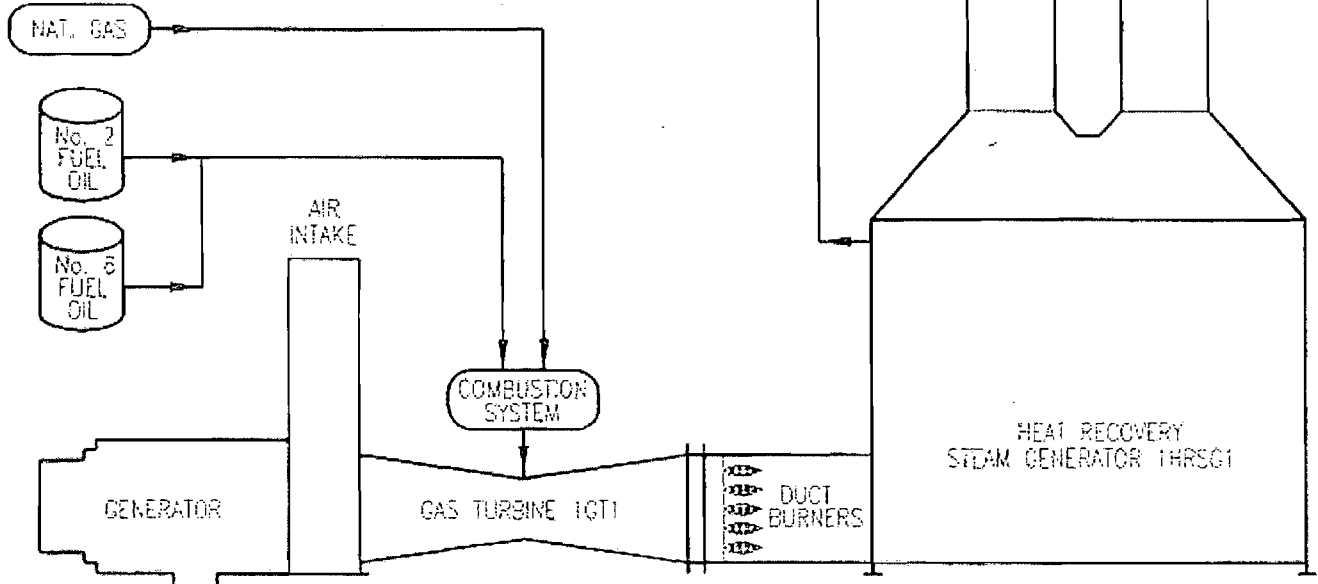
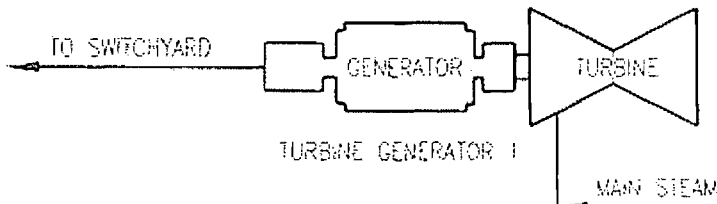
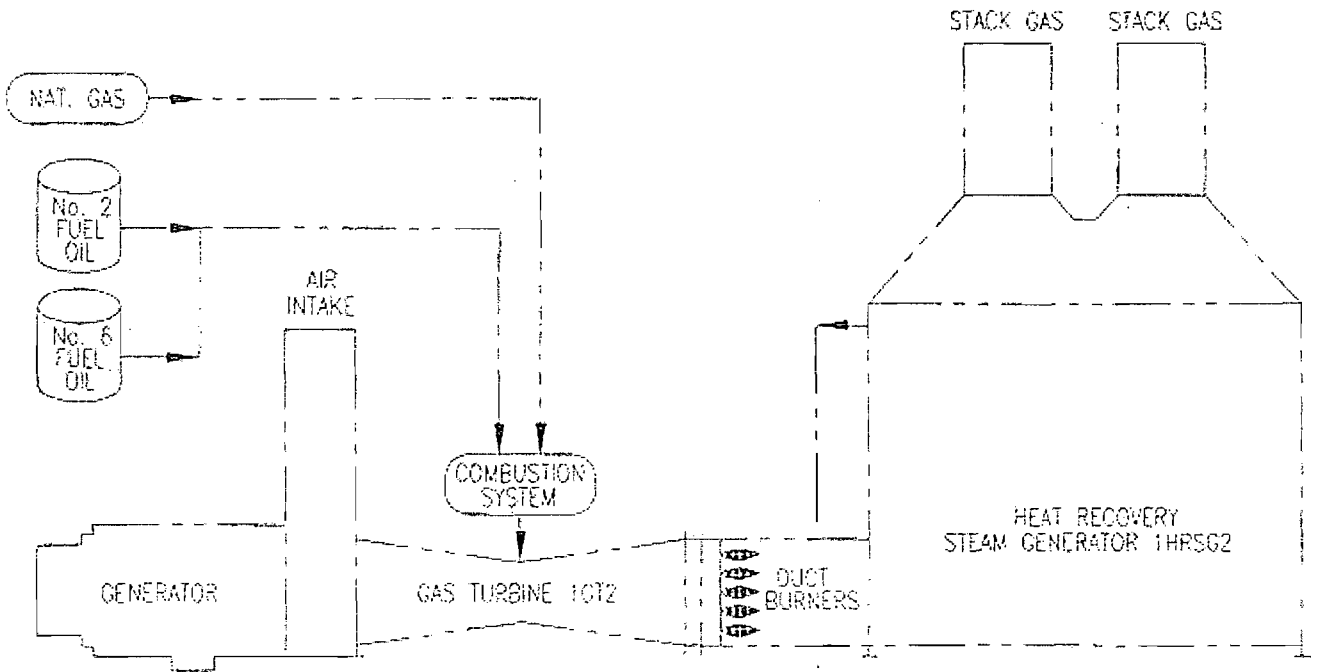
Emissions Unit Information Section _ Combustion Turbines EU003-006

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [X] Attached, Document ID: <u>PPNU1_11</u> [] Not Applicable
12. Alternative Modes of Operation (Emissions Trading) [] Attached, Document ID: _____ [X] Not Applicable
13. Identification of Additional Applicable Requirements [X] Attached, Document ID: <u>PPNU1_13</u> [] Not Applicable
14. Compliance Assurance Monitoring Plan [] Attached, Document ID: _____ [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: <u>PPNU1_15</u> [] 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 PPNEU1_1
PROCESS FLOW DIAGRAM

ATTACHMENT: PPNEU1_1.bmp



TECHNICAL ACCEPTANCE		
DESIGN	BY	DATE
CONSTRUCTION	BY	DATE
OPERATION	BY	DATE

WALKDOWN INFORMATION		
DATE	BY	DATE
AS-BUILT	BY	DATE
REVISION	BY	DATE

BAR CODE

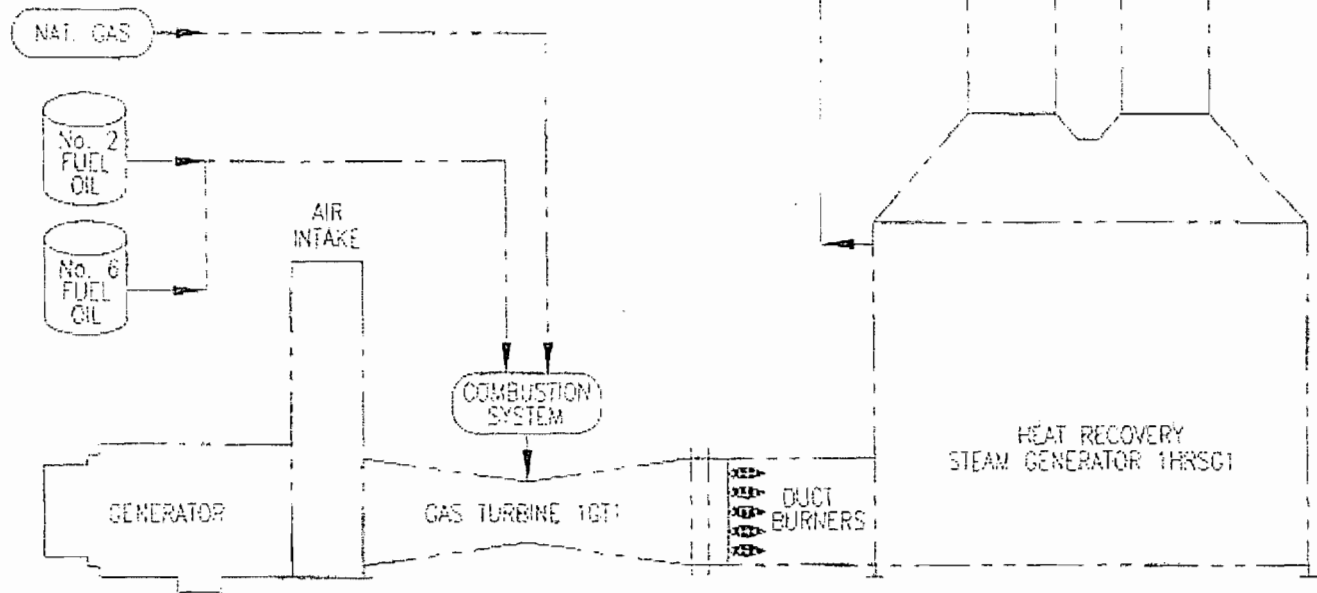
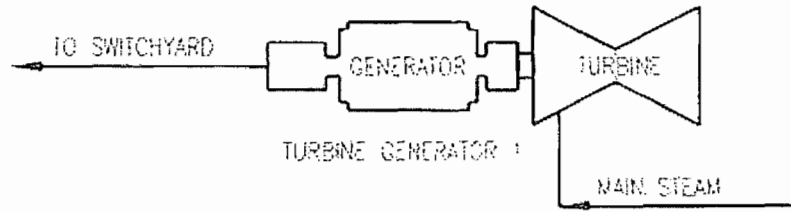
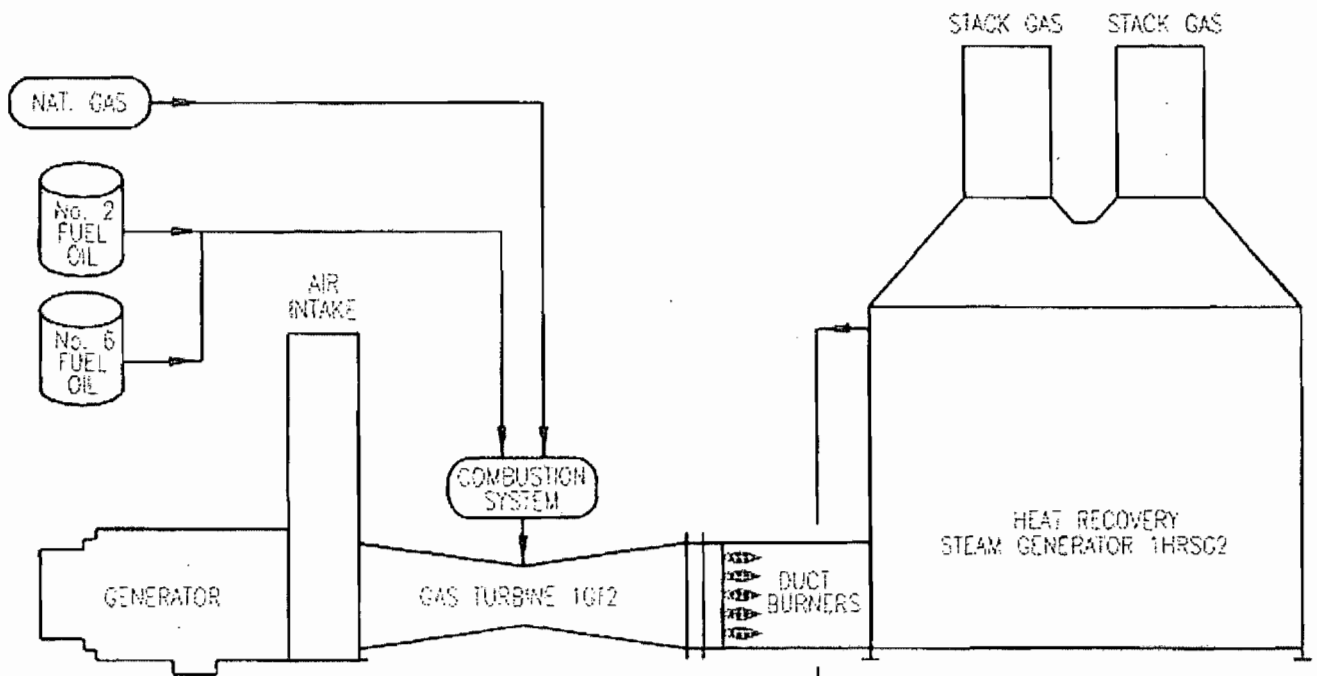
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	EMISION SET	A (8.5x11)	FPL ARCHIVE NAME	PN002144			

DATE	DESCRIPTION	BY	CHK	APP	DRG
01/28/95	ISSUED FOR THE V PERMIT	PWB	PWB	CSP	CSP

DESIGN NUMBER	PPN1-M0102-YY	SHEET	1 OF 1	REV	0
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ATTACHMENT: PPNEU2_1.bmp

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DATE	BY
ENGINEER'S SIGNATURE	
WALKDOWN INFORMATION	
DATE	BY
AS-BUILT SIGNATURE	



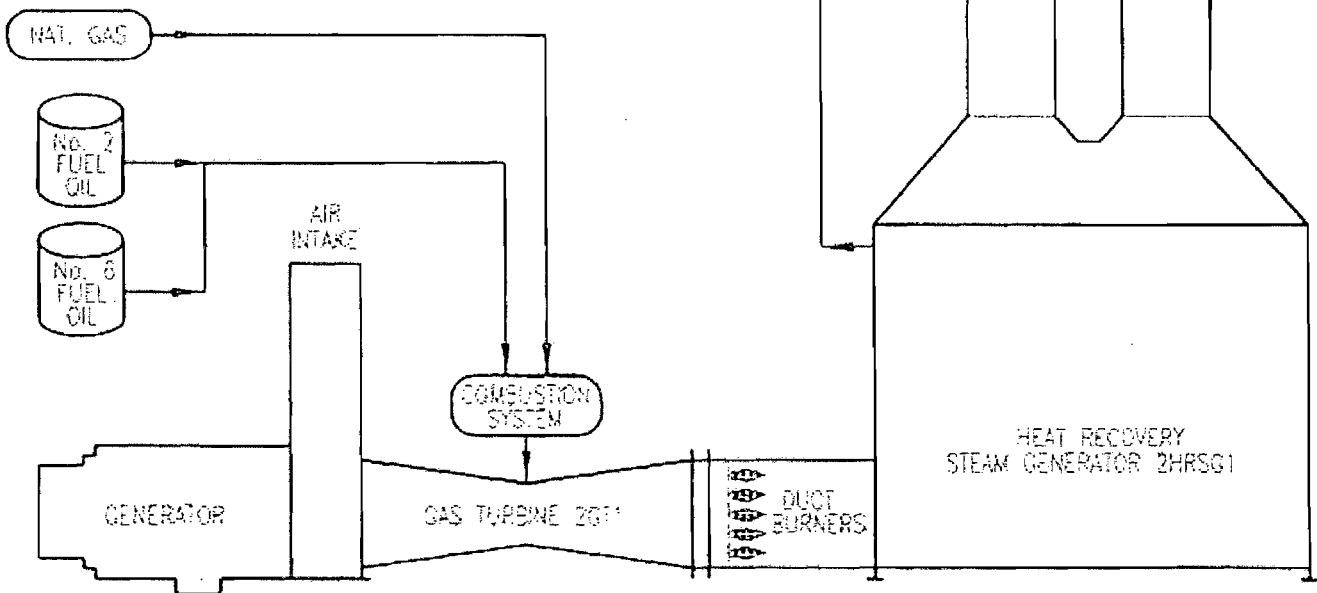
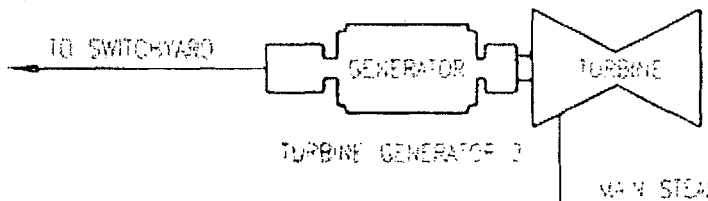
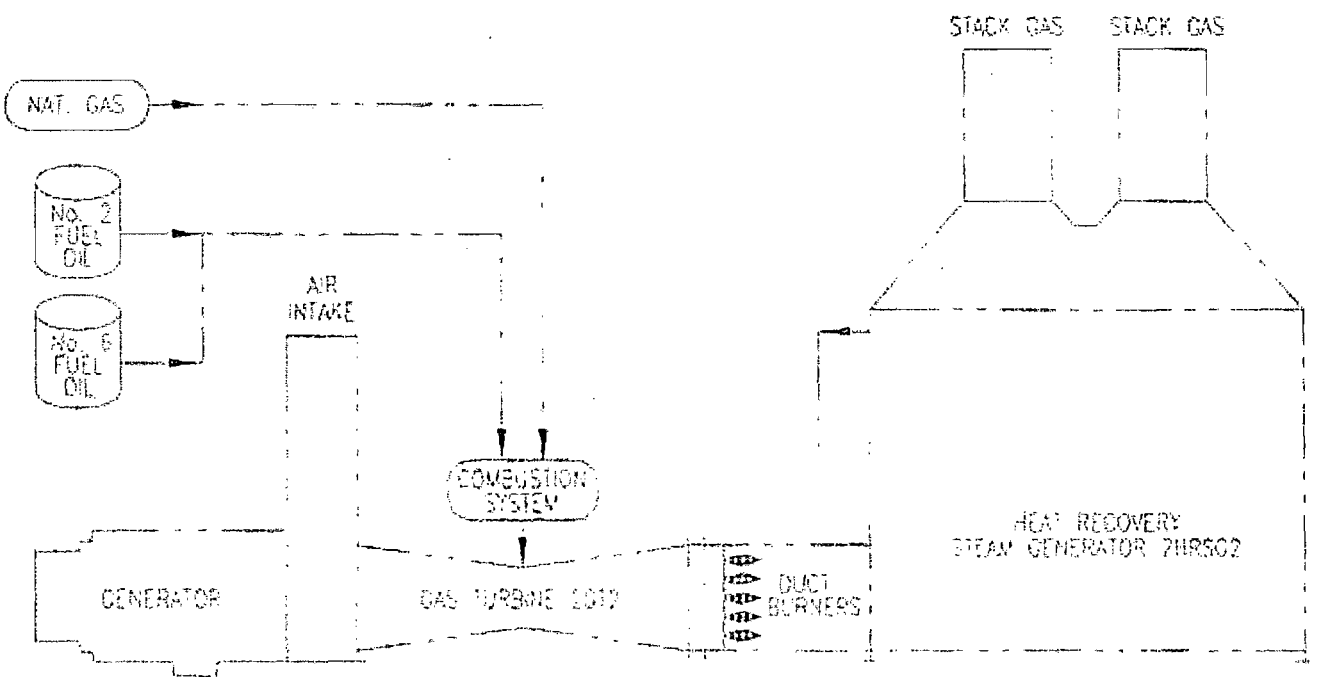
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DRAWING NUMBER						PPN1-M0103-YY
DATE	REVISION DESCRIPTION	BY	CHK	COR	APP	CRG
REV						
SHEET						1 OF 1
						REV
						0

7/26/95 ISSUED FOR TITLE V PERMIT
 PWB PWE CSP CSP ETS
 REV DATE REVISION DESCRIPTION BY CH COR APP CRG

ATTACHMENT: PPNEU3_1.bmp

WASTEWATER INFORMATION		TECHNICAL ACCEPTANCE	
DATE	BY	DATE	BY
AS-SUBMITTED	REVISION		



BAR CODE

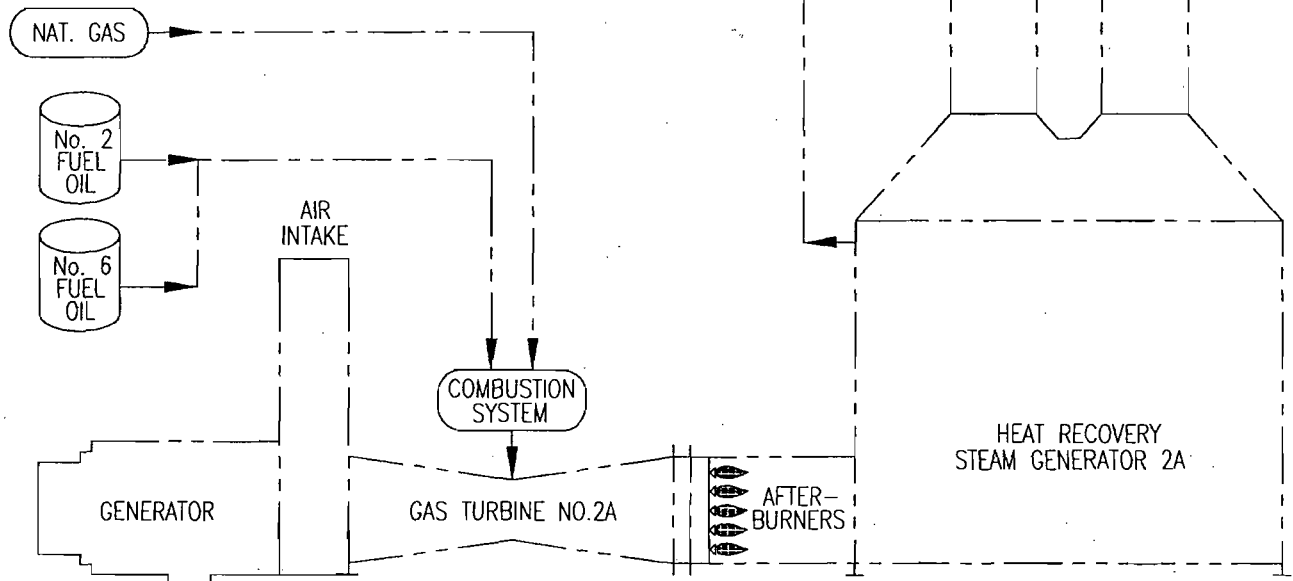
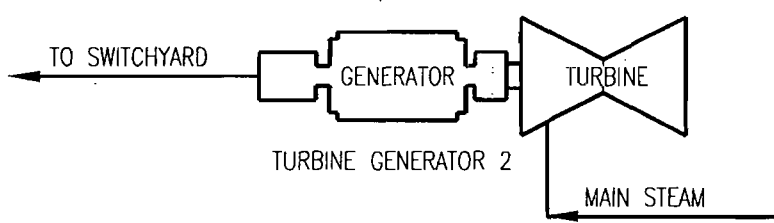
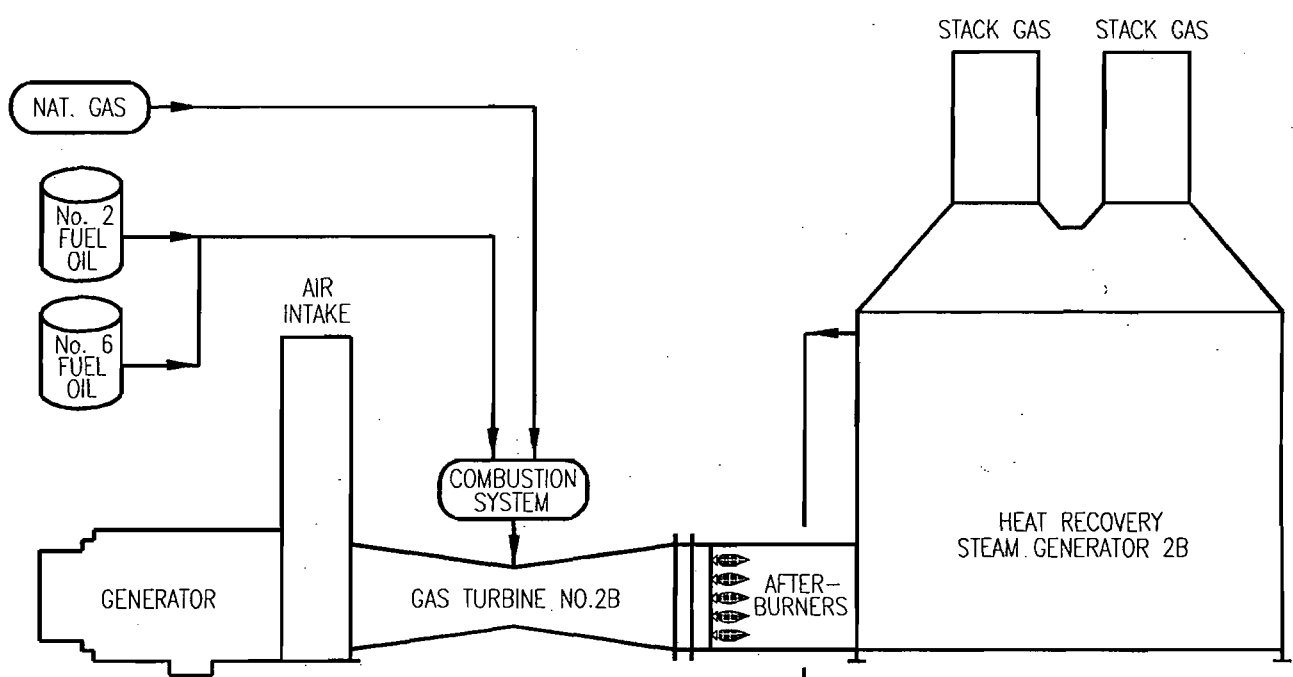
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DATE: 7/23/85	REVISION DESCRIPTION: ISSUED FOR TITLE V PERMIT	BY: JCH	DATE: 10/14/85
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PPN1-M0104-YY

SHEET: 1 OF 1	REV: 0
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TECHNICAL ACCEPTANCE		
ORG	BY	DATE
WALKDOWN INFORMATION		
ORG	BY	DATE
AS-BUILT INFORMATION		
ORG	BY	DATE



BAR CODE

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT-UNIT 1 & 2	
	SCALE	N/A	CAD FILE NAME	PN002147	TITLE	EMISSION UNIT FLOW DIAGRAM	
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	PN002147	COMBUSTION TURBINES		
						ATTACHMENT NO. EU4	

0	7/27/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

DRAWING NUMBER	PPN1-M0105-YY	SHEET	1 OF 1	REV	0
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ATTACHMENT PPNU1_2
FUEL ANALYSIS OR SPECIFICATION

Fuel Analysis
Natural Gas Analysis (typical)²

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
Specific gravity(@ 60° F)	0.887	none
Heat content (Btu/cu ft)	950 - 1124	none
% sulfur (grains/CCF)	0.43 ¹	1.00
% nitrogen (by volume)	0.8	none
% ash	negligible	none

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

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

Attachment PPNU1_2.txt

Fuel Analysis
No.6 Oil Analysis (typical)⁴

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60° F)	8 - 12	10.1 min ¹
Heat content (MBtu/bbl)	6,310 - 6420	6,340 ¹
% Sulfur	0.7	0.7 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 PPNUI_2.txt

Fuel Analysis
No. 2 Distillate oil (typical)³

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F)	35.0 ²	30 - 40 ¹
Heat content (MBtu/bbl)	5,700 - 5,800 ²	none
% sulfur	0.3 - 0.5 ¹	0.5 maximum ¹
% nitrogen	no specification	none
% ash	<0.01 ²	0.01 ¹

Footnotes:

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

Attachment PPNUI_2.txt

Fuel Analysis
On Specification Used Oil

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

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
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 PPNU1_4

DESCRIPTION OF STACK SAMPLING FACILITIES

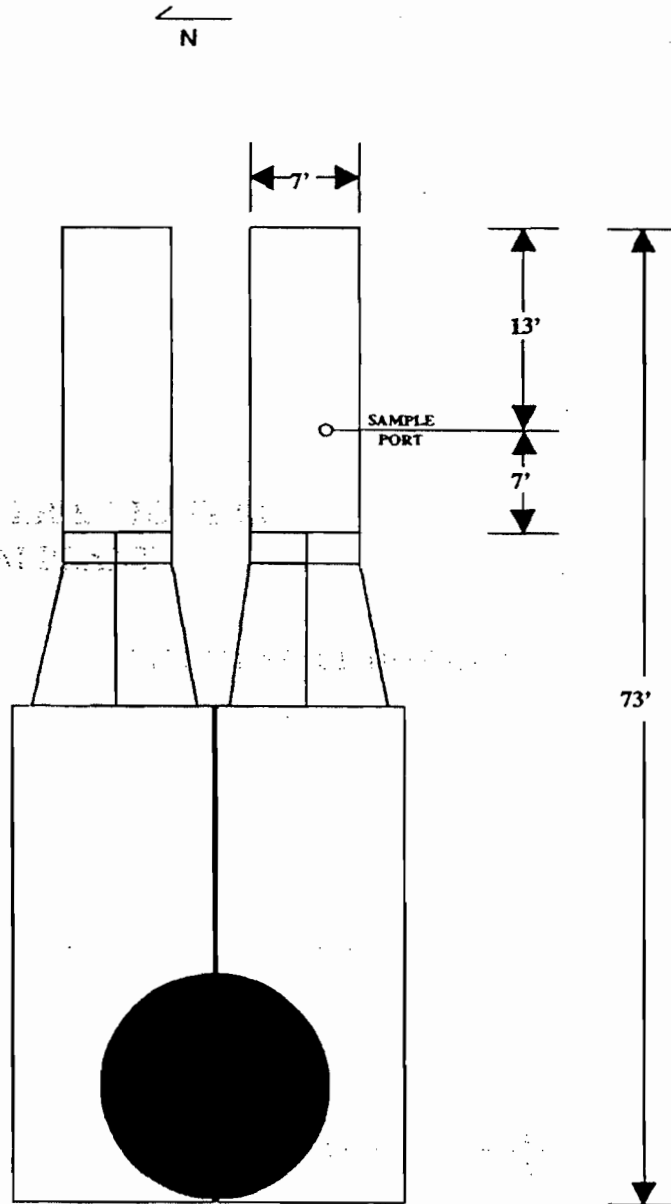
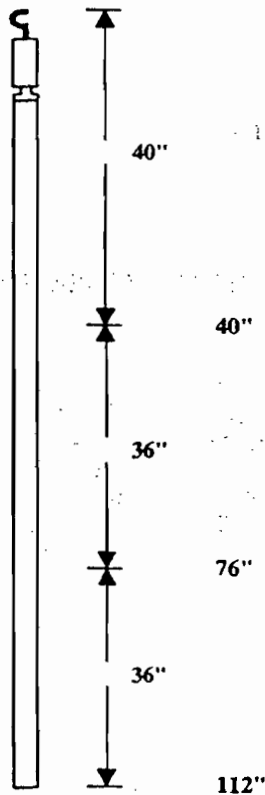
FLORIDA POWER & LIGHT CO. PUTNAM PLANT

STACK SPECIFICATIONS

STACK DEPTH: 12 ft.
SAMPLING PORT DEPTH: 4 in.
No. OF PORTS: 1
No. OF POINTS PER TRAVERSE: 3
TOTAL No. OF POINTS : 3
SAMPLING TIME PER POINT: 20 min.
TOTAL SAMPLING TIME: 60.0 min.
NOTE: DRAWING IS NOT TO SCALE

TYPICAL STACK DIAGRAM

PROBE DIAGRAM



ATTACHMENT PPNU1_6
PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PPNUI_6.doc
Procedures for Startup/Shutdown

Startup for the combustion turbines begins with "lighting off" of the machines on either natural gas or light distillate oil. A period of from two to several hours is required to allow metal temperatures in the heat recovery steam generator (HRSG) and in the steam turbine to equilibrate without undue metal stress, before putting the unit "on the line" and sending electrical power to the grid.

Emissions are continuously monitored by Continuous Emission Monitors (CEM's) for O₂ and NO_x. If excess emissions are encountered during startup or shutdown, the nature and cause of any malfunction is identified, along with the corrective actions taken or preventative measures adopted. Corrective actions may include switching the unit from automatic (remote) to local control, or changing fuel combination(s). Best Operating Practices are adhered to and all efforts to minimize both the level and duration of excess emissions are undertaken.

Shutdown is performed by reducing the unit load (electrical production) to a minimum level, opening the breaker (which disconnects the unit from the system electrical grid), shutting off the fuel and coasting down to stop. The CT is then put "on turning gear" to prevent possible disfiguration of the turbine components.

ATTACHMENT PPNU1_11
ALTERNATIVE METHODS OF OPERATION

Attachment PPNUI_11.doc

Alternative Methods of Operation - Combustion turbines

This combustion turbine (CT) emission unit will operate primarily on natural gas fuel, with light distillate oil as a backup fuel.

Each CT will be operated independently of each other, and can operate from 0 to 968.3 MMBtu/hour on gas fuel and from 0 to 910.6 MMBtu/hour on distillate oil.

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

The type of fuel combusted affects emissions due to the variability of contaminants contained in the fuel and differences in the combustion process for different fuels. Please refer to Source Supplemental Information Question #3 for fuel analytical information.

Megawatt load on the unit affects emissions primarily due to differences in combustion efficiency. With some parameters, megawatt load and emission rate are directly related; with others, an inverse relationship exists.

The combustion turbine may also be operated in "power augmentation" mode, which involves the introduction of steam into the combustion chamber, along with slightly higher fuel and air injection rates.

ATTACHMENT PPNU1_13

**IDENTIFICATION OF ADDITIONAL
APPLICABLE REQUIREMENTS**

Attachment PPNU1_13.doc

Identification of Additional Applicable Requirements

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

The Putnam Plant has a federally-enforceable Site Certification (PPSA 74-01). This document was modified in 1980, 1984, 1991 and 1992. Following are air-related excerpted specific conditions from the Site Certification, a description as to how FPL is currently complying with each specific condition, and in some cases, a request that the specific condition be deleted.

Combustion Turbine Specific Conditions

1. The combustion turbines shall fire fuel oil not exceeding 0.7 percent sulfur and natural gas.

FPL maintains records regarding the sulfur percentage of the fuel fired in the combustion turbines.

2. Visible emissions shall not exceed 20 percent opacity except for one 6-minute period per hour during which opacity shall not exceed 27 percent.

FPL performs periodic EPA method 9 visible emission evaluations on these units, and maintains records to document compliance with the opacity limit.

3. If sustained winds exceed 20 miles per hour for any continuous period of 3 hours or longer, the sulfur content of the fuel may be no greater than 0.5%. If oil with a sulfur content of > 0.5% is burned, the wind velocity and wind direction must be measured at hourly intervals.

FPL normally fires the combustion turbines with only natural gas fuel. The fuel oil that is available to be fired contains less than 0.5% sulfur at present. If fuel oil is purchased containing greater than 0.5% sulfur, then FPL will undertake the wind velocity and direction monitoring as specified by the permit condition.

ATTACHMENT PPNU1_15
ACID RAIN PART APPLIATION

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 PUTNAM Plant	State FL	ORIS Code 6246
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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.

Compliance Plan				
a	b	c	d	e
Unit ID#	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
HRSG11	Yes	NO	N/A	N/A
HRSG12	Yes	NO	N/A	N/A
HRSG21	Yes	NO	N/A	N/A
HRSG22	Yes	NO	N/A	N/A
	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)

PUTNAM Plant**STEP 4**

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

Standard RequirementsAcid 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)
PUTNAM 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 <i>Nancy Kierspe</i>	Date <i>4-7-03</i>

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

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) <input checked="" type="checkbox"/> 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). <input type="checkbox"/> 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. <input type="checkbox"/> 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) <input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input type="checkbox"/> 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): EU 007 Ductburners in HRSG 1 1, EU 008 Ductburners in HRSG 1 2, EU 009 Ductburners in HRSG 2 1, EU 010 Ductburners in HRSG 2 2			
4. Emissions Unit Identification Number: 011 <input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown			
5. Emissions Unit Status Code: A	6. Initial Startup Date: 1992	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [YES]
Emissions Unit Comment: (Limit to 500 Characters) These emissions units consist of duct burners for one heat recovery steam generator. Each HRSG is associated with one combustion turbine. Each HRSG's duct burners have a maximum heat input for natural gas or number 2 fuel oil of 250 mmBtu/hr. These units began operation in 1978 and were rebuilt in 1992.			

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

Emissions Unit Control Equipment

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

N/A

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer: **Deltak**

Model Number: **Na**

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:	250	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
7. Operating Capacity/Schedule Comment (limit to 200 characters):		
<p>Heat input above in Item 1. Is for both nat gas or #2 oil at 85⁰ F ambient temp.</p>		

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

List of Applicable Regulations

See Attachment PPNFS_12	

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

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? [EU 005–EU 008, Stack 1]		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): <p>The duct burners located in the HRSG share the two emissions points [stacks] utilized by the associated CT.</p>			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Combustion turbine EU 003 and duct burners in HRSG EU 007			
7. Discharge Type Code: V	6. Stack Height: 73 feet	7. Exit Diameter: 10.34 feet	
8. Exit Temperature: 327.6 °F	9. Actual Volumetric Flow Rate: 968,628.8 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): 490.957 North (km): 3277.732			
14. Emission Point Comment (limit to 200 characters): EU 003 through EU006 are gas turbines capable of firing both nat gas & #2 fuel oil. EU 003 & EU 007 share common emission points [stacks]. Refer to attachment PPNFS_3 for clarification.			

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

**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? [EU 005-EU 008, Stack 2]		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): The duct burners located in the HRSG share the two emissions points [stacks] utilized by the associated CT.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: Combustion turbine EU 003 and duct burners in HRSG EU 007			
8. Discharge Type Code: V	6. Stack Height: 73 feet	7. Exit Diameter: 10.34 feet	
8. Exit Temperature: 327.6 °F	9. Actual Volumetric Flow Rate: 968,628.8 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): 490.957 North (km): 3277.737			
14. Emission Point Comment (limit to 200 characters): EU 003 through EU 006 are gas turbines capable of firing both nat gas & #2 fuel oil. EU 003 & EU 007 share common emission points [stacks]. Refer to attachment PPNFS_3 for clarification.			

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

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Natural Gas		
8. Source Classification Code (SCC): 1-02-006-01		3. SCC Units: Million Cubic Feet
4. Maximum Hourly Rate: 0.238	7. Maximum Annual Rate: 2,085	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	11. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): The dust burners fire natural gas although they are currently permitted to fire distillate fuel oil as well.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Light distillate oil		
9. Source Classification Code (SCC): 1-02-005-02		3. SCC Units: thousand gallons burned
10. Maximum Hourly Rate: 1.838	11. Maximum Annual Rate: 16,100.88	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	10. Million Btu per SCC Unit: 136
11. Segment Comment (limit to 200 characters): The dust burners fire natural gas although they are currently permitted to fire distillate fuel oil as well.		

Emissions Unit Information Section HRSG Duckburners (EU 007 – EU 010)

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: 50 lb/hour	4. Synthetically Limited? [NO] 219 tons/year
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 0.2 lb/mmBtu Reference: 40 CFR 60.44b(a)4.i	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 0.2 lb/mmBtu x 250 mmBtu/hr = 50 lb/hr 50 lb/hr x 8760 hr/yr = 438,000 lb/yr 438,000 lb/yr / 2100 lb/ton = 219 tons/yr	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Potential emission rates are reflective of natural gas firing.	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: Rule	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.2 lb/mmBtu	4. Equivalent Allowable Emissions: 50 lb/hour 219 tons/year
5. Method of Compliance (limit to 60 characters): EPA Methods 7E & 3A [A.S.P. per Rule 62-297.620]	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NOx emissions limit for natural gas or distillate oil firing [Rule 40 cfr 60.44b(a)(4)(I)]	

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: Rule	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 0.4 lb/mmBtu	4. Equivalent Allowable Emissions: 100 lb/hour 438 tons/year
5. Method of Compliance (limit to 60 characters): EPA Methods 7E & 3A [A.S.P. per Rule 62-297.620]	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): NOx emissions limit for residual oil firing [Rule 40 CFR 60.44b(a)(4)(ii)]	

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

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

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Manufacturer: NO_x = TECO Model Number: NO_x = 42 Serial Number: NO_x EU 007 = 42D-49807-284, EU 009 = 42D-49804-284 EU 008 = 42D-49812-284, EU 010 = 42D-49809-284	
5. Installation Date: 11/01/94	6. Performance Specification Test Date: 12/18/94
7. Continuous Monitor Comment (limit to 200 characters): EU 003 & EU 007 share common emission points & emission monitors. The CO2 monitor provides percent O2 data to the NOx monitoring sys in accord with 40 CFR 75 Appx E, equation E-3. Note the EU is a gas-fired unit per 40 CFR 72.2	

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

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code: EM	2. Pollutant(s): CO₂
3. CMS Requirement: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other	
4. Monitor Information: Manufacturer: CO₂ = California Analytical Model Number: CO₂ = 3300 Serial Number: CO₂ EU 007 = N4C0319T, EU 009 = N4C0321T EU 008 = N4C0310T, EU 010 = N4C0307T	
5. Installation Date: 11/01/94	6. Performance Specification Test Date: 12/18/94
7. Continuous Monitor Comment (limit to 200 characters): CO2 monitor provides % O2 data to NOx monitoring sys per 40 CFR 75 Appx E, eqn E-3. CO2 is calculated per 40 CFR 75 Appx G eqn G-4 due to NO flow meter.	

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

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: PPNEU2_1 [] Not Applicable [] Waiver Requested
2. Fuel Analysis or Specification [X] Attached, Document ID: PPNU1_2 [] Not Applicable [] Waiver Requested
3. Detailed Description of Control Equipment [] Attached, Document ID: [X] Not Applicable [] Waiver Requested
4. Description of Stack Sampling Facilities [X] Attached, Document ID: PPNU1_4 [] 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: PPNU1_6 [] 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:

Emissions Unit Information Section _HRSG Duckburners (EU 007 – EU 010)

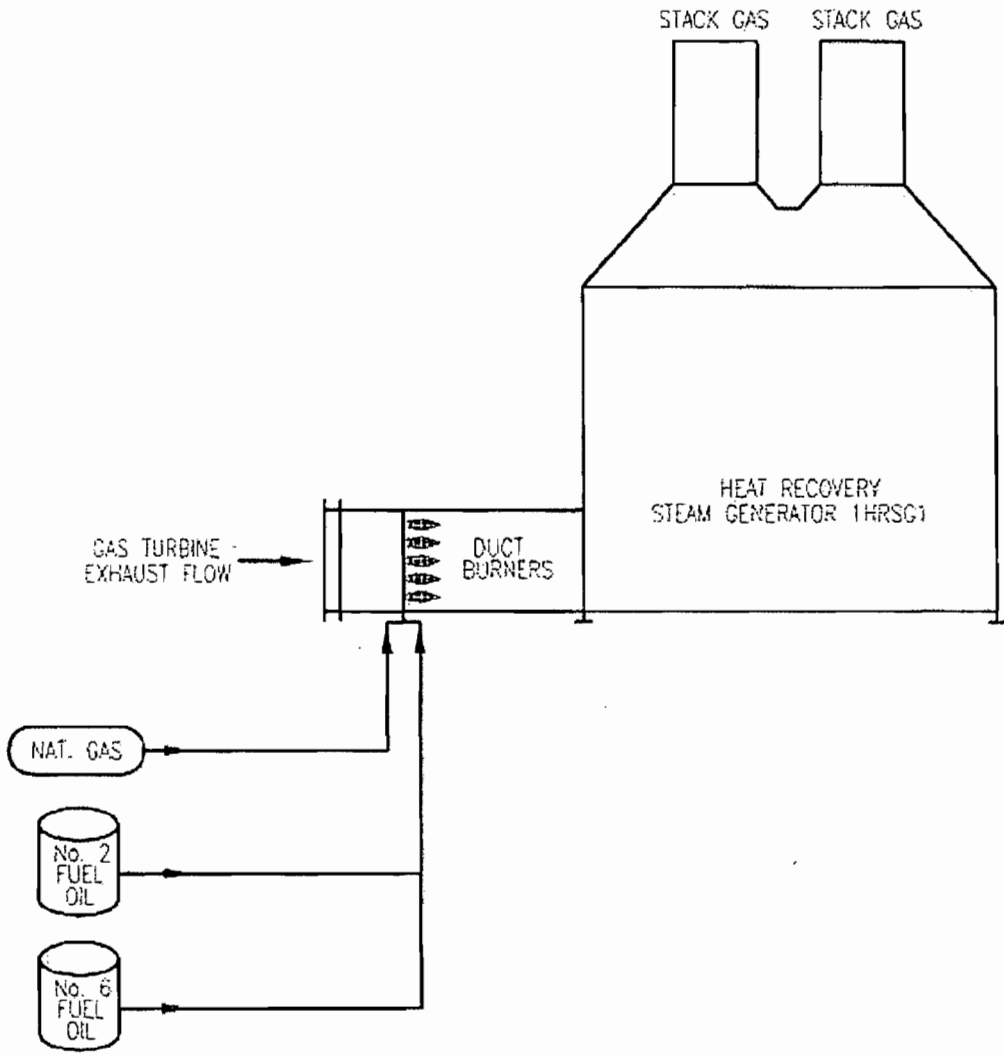
Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [X] Attached, Document ID: <u>PPNU1_11</u> [] Not Applicable
12. Alternative Modes of Operation (Emissions Trading) [] Attached, Document ID: _____ [X] Not Applicable
13. Identification of Additional Applicable Requirements [X] Attached, Document ID: <u>PPNU1_13</u> [] Not Applicable
14. Compliance Assurance Monitoring Plan [] Attached, Document ID: _____ [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: <u>PPNU1_15</u> [] 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 PPNEU2_1
PROCESS FLOW DIAGRAM

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

BAR CODE



	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT-UNIT 1
	SCALE	N/A	CAD FILE NAME	PN002148	TITLE	EMISSION UNIT FLOW DIAGRAM
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	PN002148		DUCTBURNERS
						ATTACHMENT NO. EU5

REV	DATE	REVISION DESCRIPTION	BY	CHK	COR	APP	ORC
0	7/28/99	ISSUED FOR TITLE V PERMIT					

DRAWING NUMBER	PPN1-M0106-YY	SHEET	1 OF 1	REV	0
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Emissions Unit Information Section _Auxiliary Boiler

Emissions Unit Control Equipment

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

N/A

2. Control Device or Method Code(s):

Emissions Unit Details

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

Emissions Unit Information Section _Auxiliary Boiler

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	16.275	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
8. Operating Capacity/Schedule Comment (limit to 200 characters):	<p>Heat input above in Item 1. Is for nat gas. The #2 oil value is 14.28 mmBtu/hr or 0.105 gal/hr heat input provided by the manufacturer VA Power.</p>	

Emissions Unit Information Section _Auxiliary Boiler

**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? EU 9(aux boiler)		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Not Applicable			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA			
9. Discharge Type Code: V	6. Stack Height: 45 feet	7. Exit Diameter: 2 feet	
8. Exit Temperature: 550 °F	9. Actual Volumetric Flow Rate: 5786 acfm	10. Water Vapor: 4.5 %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 490.957 North (km): 3277.732			
14. Emission Point Comment (limit to 200 characters):			

Emissions Unit Information Section Auxiliary Boiler

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

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Natural Gas		
13. Source Classification Code (SCC): 1-02-006-02		3. SCC Units: Million Cubic Feet
4. Maximum Hourly Rate: 0.0155	8. Maximum Annual Rate: 135.78	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.0031	8. Maximum % Ash:	12. Million Btu per SCC Unit: 1050
10. Segment Comment (limit to 200 characters): The primary fuel is natural gas or distillate oil #2 as a backup fuel.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Light distillate oil		
14. Source Classification Code (SCC): 1-02-005-02		3. SCC Units: thousand gallons burned
15. Maximum Hourly Rate: 0.105	16. Maximum Annual Rate: 919.8	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	12. Million Btu per SCC Unit: 136
13. Segment Comment (limit to 200 characters): The max. above reflects 8,760 hours of operation per year.		

Emissions Unit Information Section Auxiliary Boiler

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

Potential/Fugitive Emissions

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control:
3. Potential Emissions: 7.26 lb/hour 31.8 tons/year	4. Synthetically Limited? [NO]
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 to tons/year	
6. Emission Factor: 0.5 % sulfur oil Reference: Site certification #74-01	7. Emissions Method Code: 0
8. Calculation of Emissions (limit to 600 characters): 725.60 lb/hr oil x 0.5% S oil x 2 lb SO2/lb S = 7.26 lb/hr 7.26 lb/hour x 8760 hr/yr / 2000 lb/ton = 31.8 tons/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): Potential emissions based on distillate oil firing.	

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 7.26 lbs/hr	4. Equivalent Allowable Emissions: 7.26 lb/hour 31.8 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):	

Emissions Unit Information Section _Auxiliary Boiler

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

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: PPNEU3_1 [] Not Applicable
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: PPNU3_2 [] 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: [] Not Applicable [X] 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: PPNU3_6 [] 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:

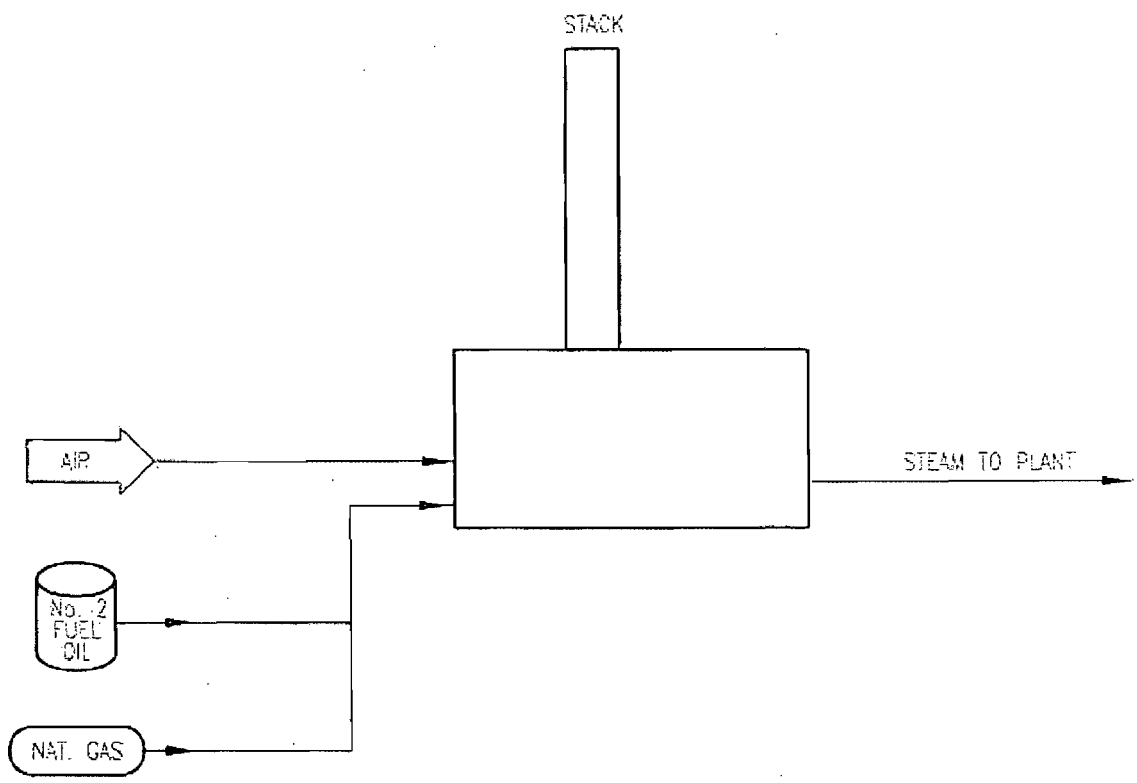
Emissions Unit Information Section _Auxiliary Boiler

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 PPNEU3_1
PROCESS FLOW DIAGRAM

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



BAR CODE

0	17/27/95	ISSUED FOR TITLE V PERMIT	FWB/PWB/CSP/CSP LETS
REV#	DATE	REVISION DESCRIPTION	BY CH COR APP ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT
	YY	M	PUTNAM SITE-UNIT 1 & 2
	SCALE	DWG FILE NAME	TITLE
N/A	PN002152	EMISSION UNIT FLOW DIAGRAM AUXILIARY BOILER ATTACHMENT NO. EU9	
DRAWING SIZE	PL. APPROVAL NAME		
A (8.5x11)	PN002152		
DRAWING NUMBER			SHEET
PPN1-M0110-YY			1 OF 1
			REV
			0

ATTACHMENT PPNU3_2
FUEL ANALYSIS OR SPECIFICATION

Fuel Analysis
Natural Gas Analysis (typical)²

<u>Parameter</u>	<u>Typical value</u>		<u>Max value</u>
Specific gravity(@ 60° F)	0.887		none
Heat content (Btu/cu ft)	950 - 1124		none
% sulfur (grains/CCF) 0.43 ¹		1.00	
% nitrogen (by volume)	0.8		none
% ash	negligible	none	

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

(1) Data from laboratory analysis

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

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

Attachment PPNU3_2.

Fuel Analysis
No. 2 Distillate oil (typical)³

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F) - 40 ¹	35.0 ²	30
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 ¹	<0.01 ²	

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 PPNU3_6
PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PPN3_6

Procedures for Startup / Shutdown

The auxiliary boiler is a primary component of the auxiliary steam system at the combined-cycle units. The function of the auxiliary steam system is to produce and convey steam to both steam turbine steam seal systems during startup and emergency situations.

Startup for the auxiliary boiler begins with "lighting off" of the machine on natural gas fuel. As the water heats up in the boiler tubes it will start to steam. After a time, the superheater is started, which adds additional heat to the steam being produced by the auxiliary boiler. When the steam pressure and temperature reach acceptable conditions, the steam is conveyed to the steam seal regulator of the steam turbine.

Shutdown is performed when the steam seals on the steam turbine become self-sealing. Shutdown is performed by shutting off the natural gas fuel supply to the auxiliary boiler.

Best Operating Practices include monitoring the visible emissions from the auxiliary boiler to ensure that the 20% opacity limitation is not exceeded. Built-in safeguards monitor the main flame and initiate shutdown in the event of loss of flame. All efforts to minimize both the level and duration of excess emissions are undertaken.

Emissions Unit Information Section _Unregulated Emission Units

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	4.64	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	hours/year
9. Operating Capacity/Schedule Comment (limit to 200 characters):	<p>Maximum heat input rate is for the emergency diesel generator which is limited to 400 hr/yr of operation. Other emission sources in the EU may operate up to 8760 hr/yr.</p>	

Emissions Unit Information Section _ Unregulated Emission Units

**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? Fire pump diesel engine		2. Emission Point Type Code: 1	
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:			
10. Discharge Type Code: H	6. Stack Height: 6 feet	7. Exit Diameter: 0.5 feet	
8. Exit Temperature: 980 °F	9. Actual Volumetric Flow Rate: 3190 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): 443.466 North (km): 3277.785			
14. Emission Point Comment (limit to 200 characters): Stack actual volumetric flow rate and exit temperature were provided by the manufacturer.			

Emissions Unit Information Section Unregulated Emission Units

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

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): diesel fuel burned in the emergency diesel generating unit.		
18. Source Classification Code (SCC): 2-01-002-02		3. SCC Units: Thousand Gallons burned
4. Maximum Hourly Rate: 0.034	9. Maximum Annual Rate: 297.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 1	8. Maximum % Ash:	13. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment of

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Above ground tank No. D – working & breathing loss		
2. Source Classification Code (SCC): 4-03-010-01		3. SCC Units: Thousand Gallons transferred or handled
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: 234,797
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 136
14. Segment Comment (limit to 200 characters): Information submitted with initial Title V application: Breathing loss = 2729.81 lb VOC/ yr [Tanks 2] Working loss = 8777.56 lb VOC/ yr [Tanks 2] Total Est. losses = 5.75 TPY using estimated activity factor [234,796,835]		

Emissions Unit Information Section _Unregulated Emission Units

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type) (limit to 500 characters): diesel fire pump engine burning distillate oil.		
19. Source Classification Code (SCC): 2-01-002-02		3. SCC Units: Thousand Gallons burned
4. Maximum Hourly Rate: 0.0244	10. Maximum Annual Rate: 213.744	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash:	15. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Emissions Unit Information Section _Unregulated Emission Units

**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):			

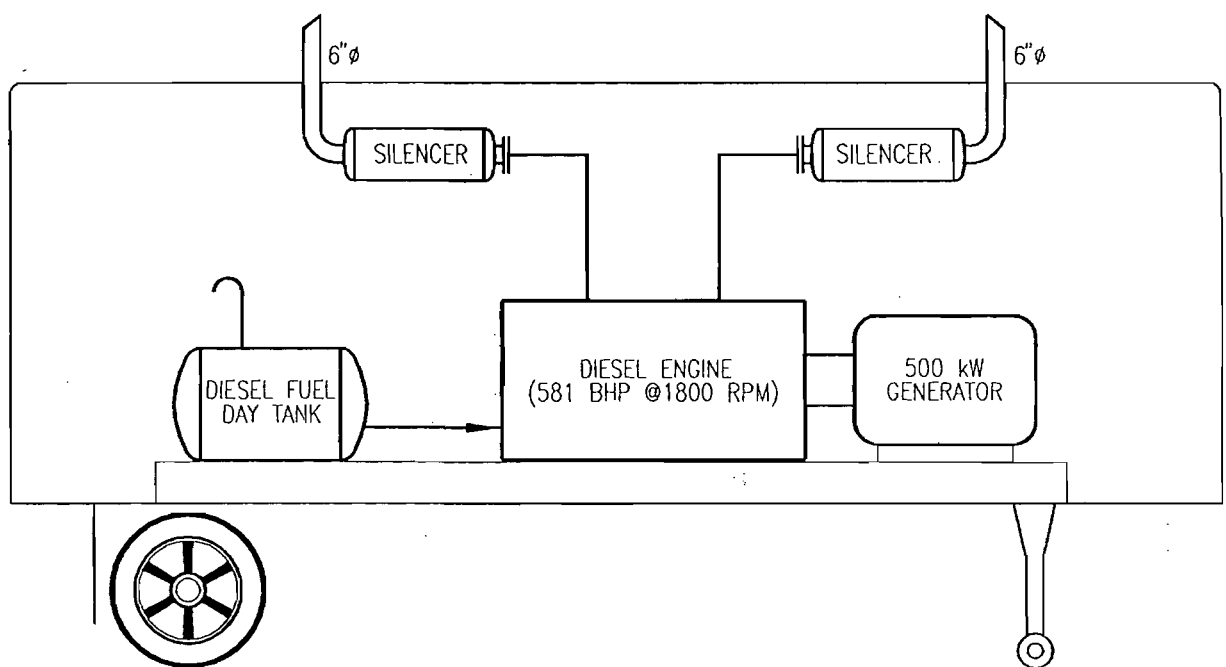
Emissions Unit Information Section _Unregulated Emission Units

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 PPNEU4_1
PROCESS FLOW DIAGRAM

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



MOBILE DIESEL GENERATOR

BAR CODE

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

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT
	SCALE	N/A	CAO FILE NAME	PN002153	TITLE	EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU10
	DRAWING SIZE	A (8.5X11)	FPL ARCH-WE NAME	PN002153		
DRAWING NUMBER					PPN1-M0111-YY	
					SHEET	1 OF 1
					REV	0

ATTACHMENT PPNU4_2
FUEL ANALYSIS OR SPECIFICATION

Attachment PPNU4_2

Fuel Analysis
No. 2 Distillate oil (typical)³

<u>Parameter</u>	<u>Typical value</u>	<u>Specifications</u>
API gravity (@ 60 F) 40 ¹	35.0 ²	30 -
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 PPNU4_6

PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PPNU4_6.doc

Procedures for Startup / Shutdown

The emergency diesel generator is the main backup emergency electrical power supply component for the power plant. The function of the emergency diesel generator is to supply electric power to key power plant equipment during emergency loss-of-power situations. This equipment is typically test-run on a monthly basis for 1 to 2 hours to ensure that it will function properly when needed in an emergency.

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

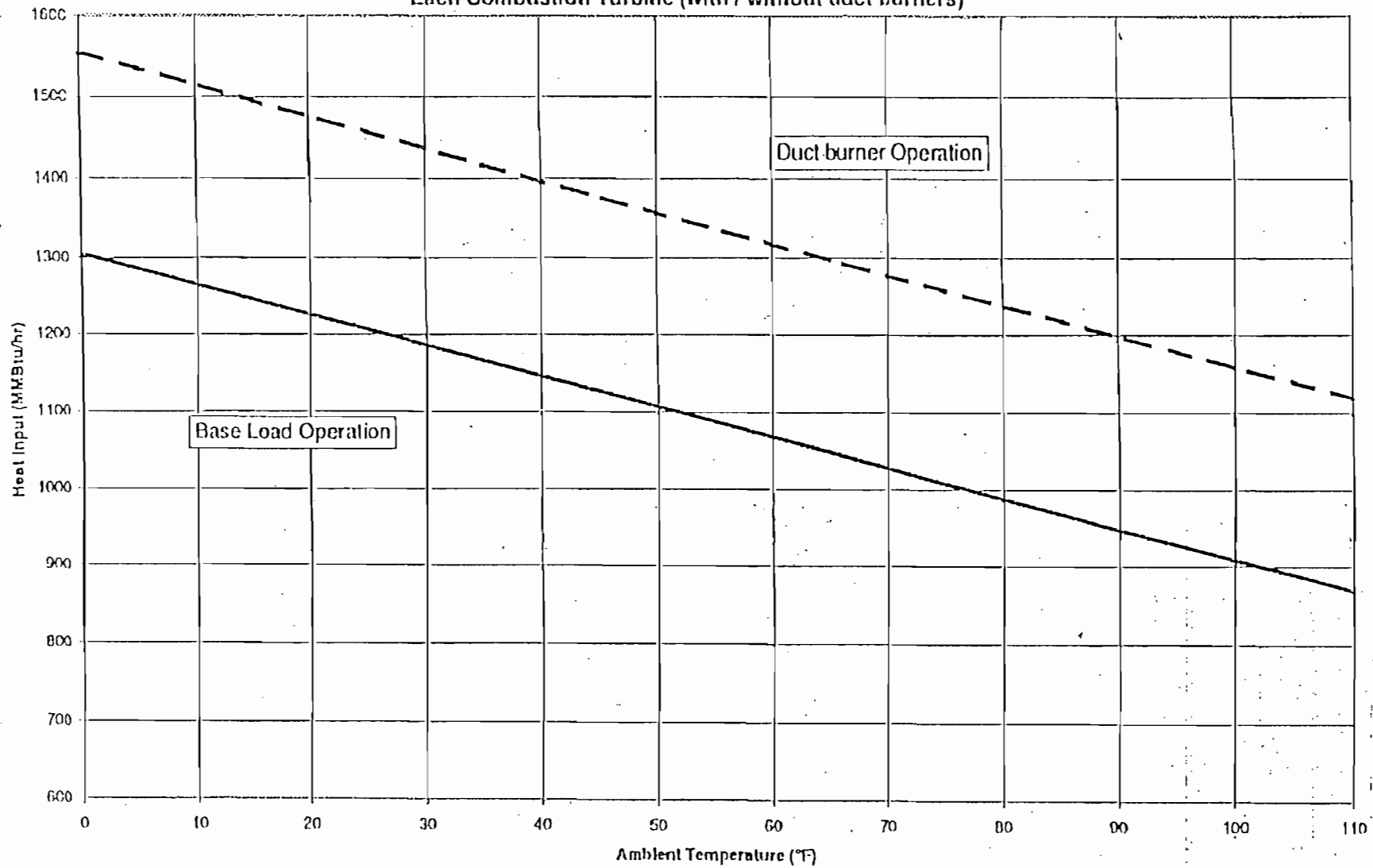
Shutdown is performed when the normal electric power supply to plant equipment is restored. Shutdown is performed by shutting off the diesel fuel supply to the emergency diesel generator.

Best Operating Practices include proper maintenance of the diesel engines by trained personnel on the generating unit, and the purchase of diesel fuel that also meets strict specifications. On occasion, maintenance personnel from the diesel generator manufacturer may be utilized to perform more extensive overhaul work.

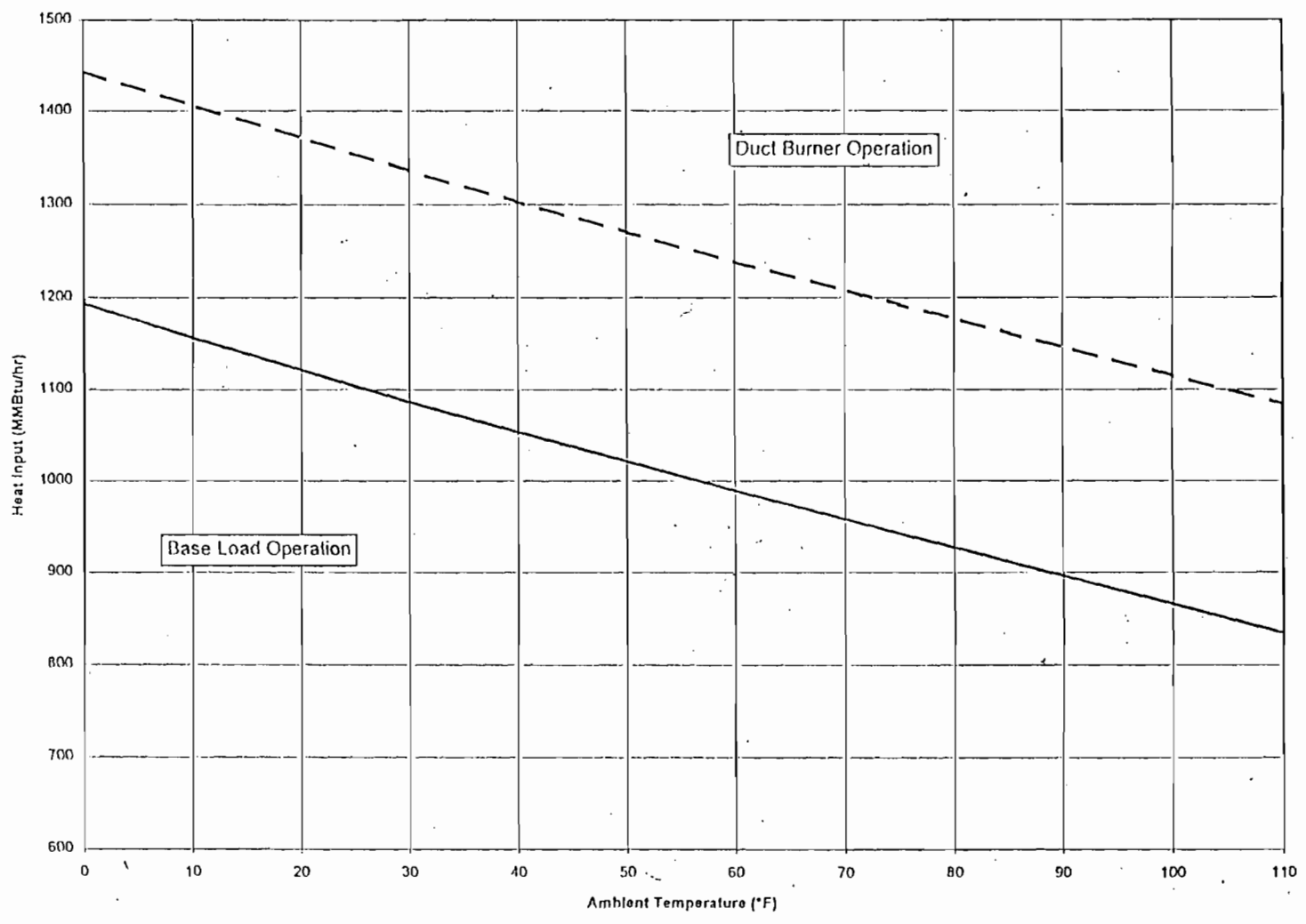
If excess emissions are suspected during operation of the emergency diesel, appropriate measures to minimize the duration of the event may include shutting down the equipment and investigating the cause of the opacity.

Appendix T,
Heat Input vs. Ambient Temperature Curves for
Natural Gas and Distillate Oil Firing

Putnam Plant Unit 1 or 2
Heat Input Variation With Ambient Temperature
Each Combustion Turbine (with / without duct burners)

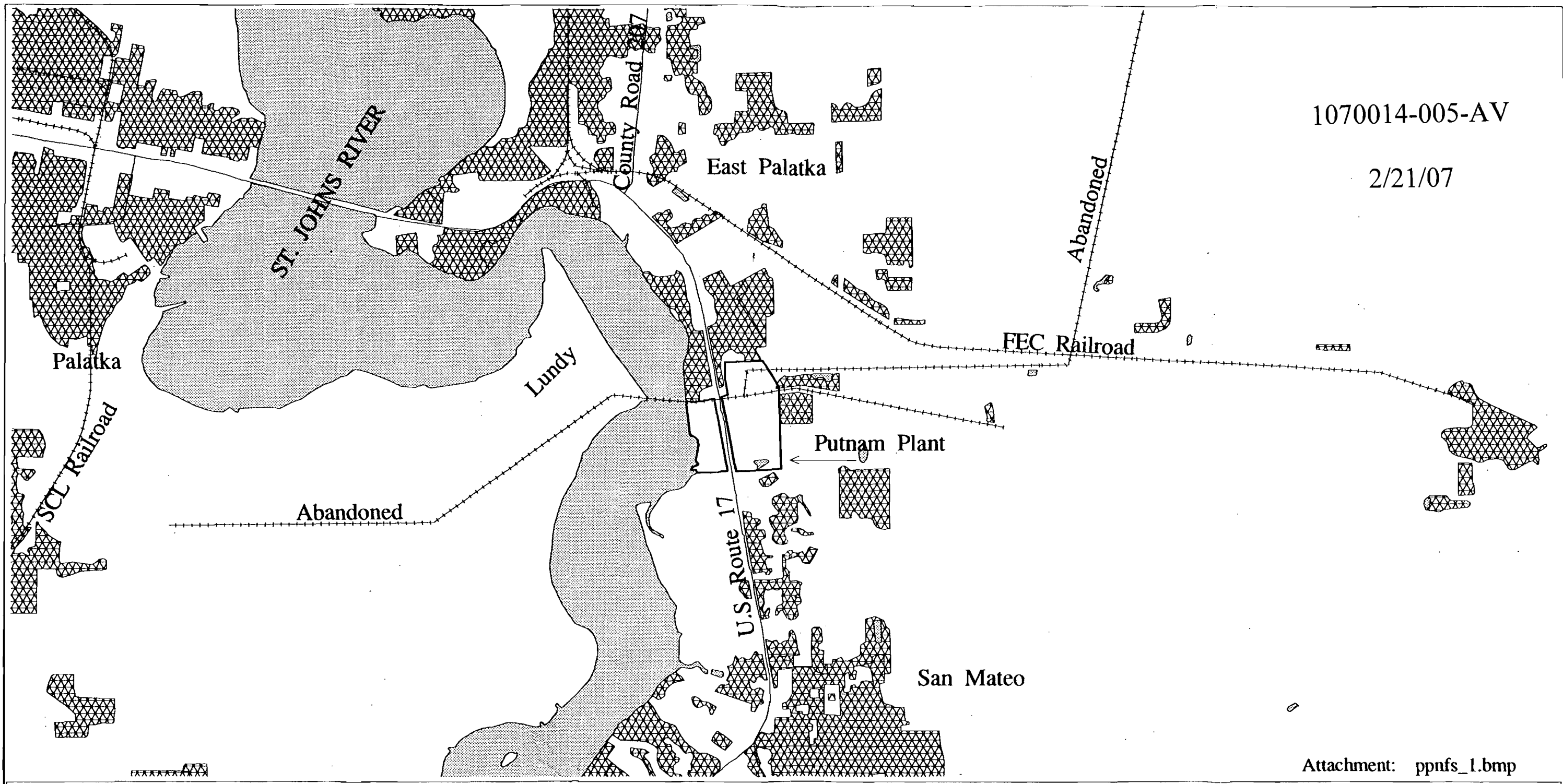


Putnam Plant Unit 1 or 2
Heat Input Variation With Ambient Temperature (Oil)
Each Combustion Turbine (with / without duct burners)



1070014-005-AV

2/21/07



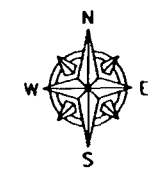
Attachment: ppnfs_1.bmp

Putnam Plant Area Map

Putnam County



Environmental
FPL Affairs



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

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.

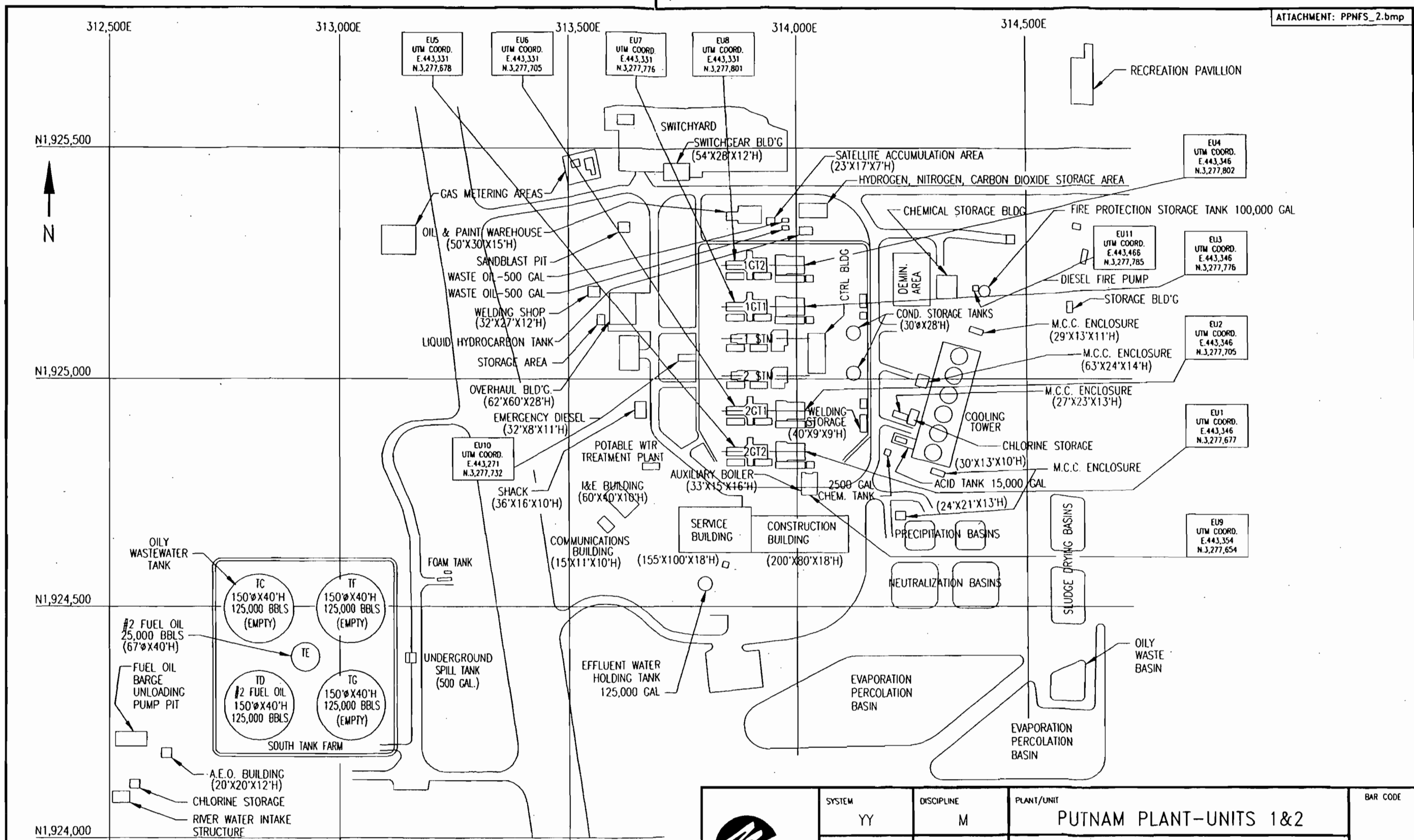
SOURCE: Landuse data provided by Saint Johns River Water Management District (1993)

/export/home/ror/ppn-site.map (3-95)

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

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"



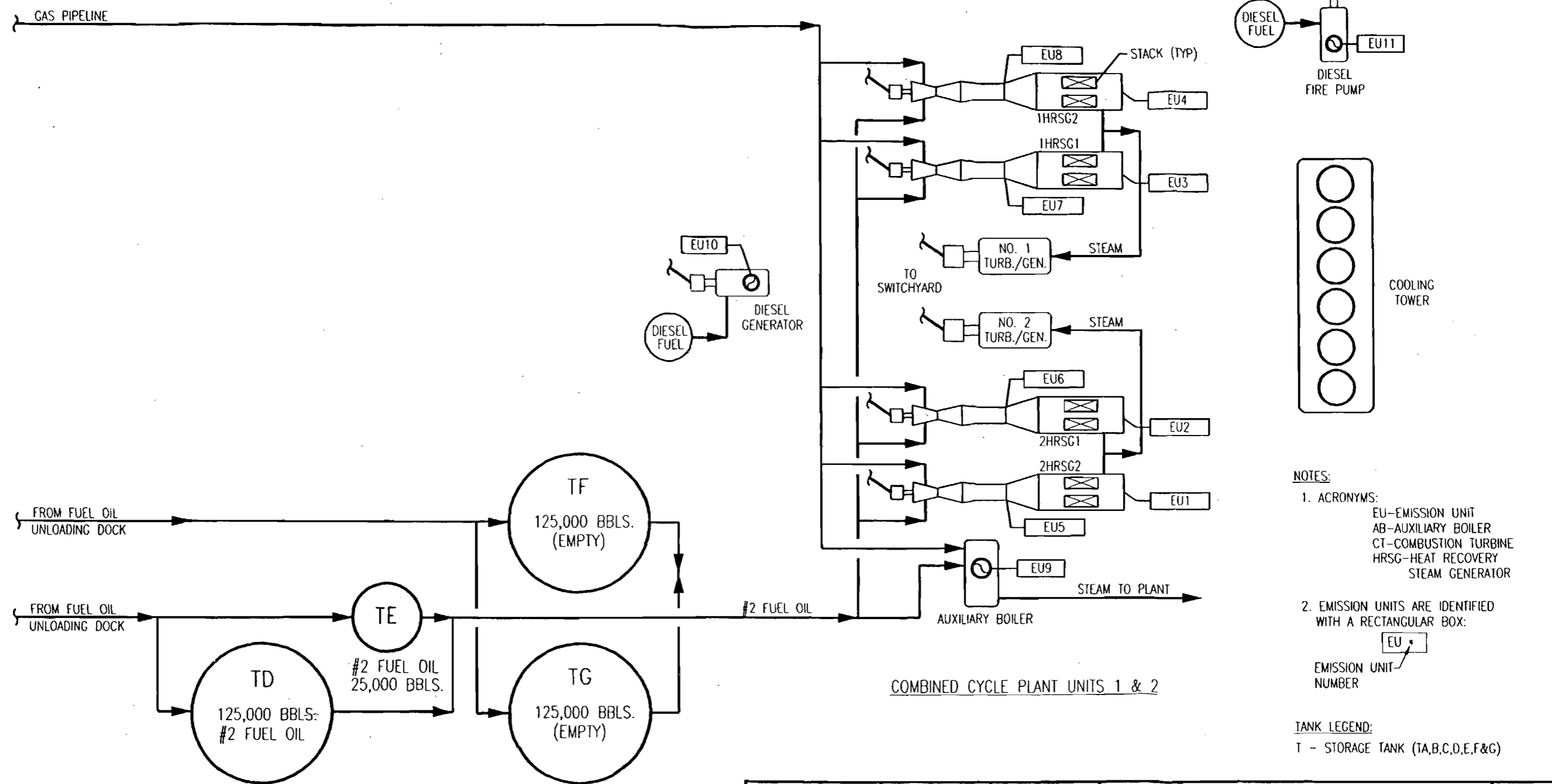
0	8/17/95	ISSUED FOR TITLE V PERMIT							
REV	DATE	REVISION DESCRIPTION	PWB	PWB	CSP	CSP	ETS		
			BY	CH	COR	APR	ORC		


	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT-UNITS 1&2		BAR CODE
	SCALE	N/A	CAD FILE NAME	PN002007	TITLE	FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V		
	DRAWING SIZE	B(11"x17")	FPL ARCHIVE NAME	PN002007	DRAWING NUMBER	SHEET	1 OF 1	
					REV	0		

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

SCALE 3/8" = 1'-0"


SCALE 1/4" = 1'-0"



- NOTES:
- ACRONYMS:
 EU-EMISSION UNIT
 AB-AUXILIARY BOILER
 CT-COMBUSTION TURBINE
 HRSG-HEAT RECOVERY
 STEAM GENERATOR
 - EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

 EMISSION UNIT NUMBER

TANK LEGEND:
 T - STORAGE TANK (TA,B,C,D,E,F&G)

0	7/27/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	PUTNAM PLANT-UNITS 1 & 2		BAR CODE
	SCALE	N/A	CAD FILE NAME	PN002143	TITLE	FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 TITLE V		
	DRAWING SIZE	B(11"X17")	FPL ARCHIVE NAME	PN002143	DRAWING NUMBER	PPN1-M0101-YY		
	DRAWING NUMBER	PPN1-M0101-YY		SHEET	1 OF 1	REV	0	