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MAY 12 2003

BUREAU OF AIR REGULATION

**TITLE V PERMIT APPLICATION
FLORIDA POWER & LIGHT COMPANY
TURKEY POINT NUCLEAR PLANT
FLORIDA CITY, FLORIDA**

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

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

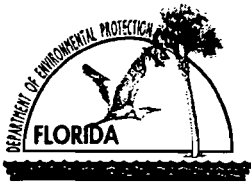
**May 2003
0237560**

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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: Turkey Point Nuclear Plant	
3. Facility Identification Number: 0250003 <input type="checkbox"/> Unknown	
4. Facility Location: Street Address or Other Locator: 10 miles east of Florida City, Palm Drive City: Florida City County: Dade Zip Code: 33035	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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 Fax: (561)- 691-7070	

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: 0250003-002-AV _____

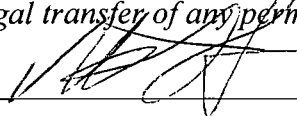
Reason for revision: TITLE V PERMIT RENEWAL _____

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: Vincent Laudato, Safety/ Environmental Supervisor
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: FPL Turkey Point Nuclear Plant Street Address: 9760 SW 344th Street City: Florida City State: FL Zip Code: 33035
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (305)- 246- 7171 Fax: (305)- 246-6783
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>  _____ Signature 4/15/03 _____ Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Kennard F. Kosky Registration Number: 14996
2. Professional Engineer Mailing Address: Organization/Firm: Golder Associates Street Address: 6241 NW 23rd Street, suite 500 City: Gainesville State: FL Zip Code: 32653
3. Professional Engineer Telephone Numbers: Telephone: (352) 336- 5600 Fax: (352) 336-6603

4. Professional Engineer Statement:

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

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

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

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

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

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

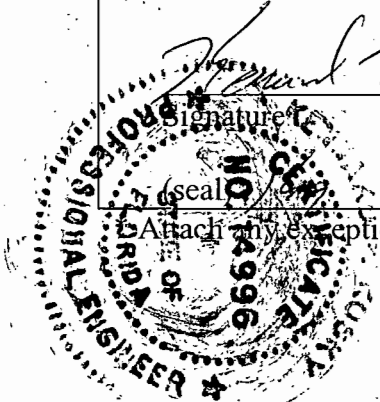
[Handwritten Signature]

5/3/03
Date

Signature

Date

Attach any exception to certification statement.



Scope of Application

Emissions Unit ID	Description of Emissions Unit	Permit Type	Processing Fee
005	(4) 2.5 MW Diesel Emergency Generators	N/A	N/A
006	(5) Other Diesel Emergency Generators	N/A	N/A
007	Miscellaneous Diesel Plant Equipment	N/A	N/A
008	Unregulated Emissions Units and/or Activities	N/A	N/A

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

Emissions unit 005 is the existing (4) 2.5 MW Diesel Emergency Generators Electra-Motive [GM] Model 20-645-E4 that are referred to by facility personnel as units 3A, 3B, 4A & 4B. The generators supply backup power to the nuclear plant auxiliary equipment. These units fire low sulfur [0.5%] diesel fuel. Units 3A & 3B commenced operation in November, 1972, while units 4A & 4B commenced operation in 1991.

Emissions unit 006 consists of five other emergency diesel generators used for the plant's security system, waste water treatment, and meteorological assessment. These generators also fire low sulfur [0.5%] diesel fuel.

Emissions unit 007 consists of the following miscellaneous diesel plant equipment:

[3] Service Air Compressor Diesel Engines

[2] Instrument Air Compressor Diesel Engines

[1] Standby steam generator feed pump diesel engine

[1] Service Water Diesel Pump

Emissions unit 008 consists of miscellaneous unregulated plant equipment & vents & activities: see Attachment PTN-8.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates: Zone: 17 East (km): 422.3 North (km): 2952.9			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): 26 / 41 / 49 Longitude (DD/MM/SS): 81 / 46 / 55			
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): The Turkey Point Title V Source is composed of two separate co-located power plants: the Fossil Plant and the Nuclear Plant. Permit no. 0250003-002-AV addresses only the [non-nuclear] operations at the Nuclear plant. The operations at the Fossil plant are addressed in a separate Title V permit No. 0250003-001-AV. The Nuclear Plant consists of two nuclear generating units with a combined capacity of 1,332 megawatts, nine emergency diesel generators, miscellaneous diesel engines, and miscellaneous unregulated and insignificant emissions units and/or activities. This application does not address the two nuclear generating units which are regulated by the Nuclear Regulatory Commission [NRC]. The Title V source is a major source of hazardous air pollutants.			

Facility Contact

1. Name and Title of Facility Contact: Vince Laudato, Environmental Specialist			
2. Facility Contact Mailing Address: Organization/Firm: FPL Turkey Point Nuclear Plant Street Address: PO Box 4332 City: Florida City State: FL Zip Code: 33432			
3. Facility Contact Telephone Numbers: Telephone: (305) 246-7177: (305) 246-6783			

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 type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input checked="" 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>This facility is subject to the asbestos NESHAP, 40 CFR 61 Subpart M.</p>	

List of Applicable Regulations

See Attached file: PTN-Reg_list	

B. FACILITY POLLUTANTS

List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. <u>Requested Emissions Cap</u>		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		
NO _x	A	NA	NA	NA	
CO	A	NA	NA	NA	

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-2 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: Attachment No. PTNFS-3 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-4 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-5 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Supplemental Requirements Comment: The Emission Units associated with this facility are not subject to CAM (40 part 64) since the emission units do not have a "control device" as defined in section 64.1. Note: Emission Units 005 through 007 are not subject to acid rain requirements. By current permit[sp cond 18A] annual & permit renewal compliance testing for NO_x emissions is not required for these emissions units while burning diesel fuel for less than 400 hours in each generator or engine.[Rules 62-296.570(4)(a)3. and 62-297.310(7)(a)3. and 4., F.A.C.]

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-8 <input type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input checked="" type="checkbox"/> Attached, Document ID: PTNFS-9 <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 type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" 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: _ PTNFS_13 <input type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input checked="" type="checkbox"/> Attached, Document ID: _ PTNFS_14. <input type="checkbox"/> Not Applicable

ATTACHMENT PTN-REG

LIST OF REGULATIONS

Turkey Point Nuclear Plant

File: PTN-Reg_List

[Note: This list is a modification of the Title V Core List that includes Miami -Dade County [DERM] regulations.]

Federal: (description)

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.

40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditioners (MVAC).

40 CFR 82, Subpart F: Recycling and Emissions Reduction.

State: (description)

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

62-4.030, F.A.C.: General Prohibition.

62-4.040, F.A.C.: Exemptions.

62-4.050, F.A.C.: Procedure to Obtain Permits; Application.

62-4.060, F.A.C.: Consultation.

62-4.070, F.A.C.: Standards for Issuing or Denying Permits; Issuance; Denial.

62-4.080, F.A.C.: Modification of Permit Conditions.

62-4.090, F.A.C.: Renewals.

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

62-4.110, F.A.C.: Financial Responsibility.

62-4.120, F.A.C.: Transfer of Permits.

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

62-4.150, F.A.C.: Review.

62-4.160, F.A.C.: Permit Conditions.

62-4.210, F.A.C.: Construction Permits.

62-4.220, F.A.C.: Operation Permit for New Sources.

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

62-210.300, F.A.C.: Permits Required.

62-210.300(1), F.A.C.: Air Construction Permits.

62-210.300(2), F.A.C.: Air Operation Permits.

62-210.300(3), F.A.C.: Exemptions.

62-210.300(5), F.A.C.: Notification of Startup.

62-210.300(6), F.A.C.: Emissions Unit Reclassification.

62-210.300(7), F.A.C.: Transfer of Air Permits.

Turkey Point Nuclear Plant

File: PTN-Reg_List

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

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

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

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

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

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

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

Turkey Point Nuclear Plant

File: PTN-Reg_List

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

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

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.

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

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

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

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

62-297.345, F.A.C.: Stack Sampling Facilities Provided by the Owner of an Emissions Unit.

62-297.350, F.A.C.: Determination of Process Variables.

62-297.570, F.A.C.: Test Report.

62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

Miscellaneous:

CHAPTER 28-106, F.A.C.: Decisions Determining Substantial Interests

CHAPTER 62-110, F.A.C.: Exception to the Uniform Rules of Procedure, effective
07-01-98

CHAPTER 62-256, F.A.C.: Open Burning and Frost Protection Fires, effective 11-30-94

CHAPTER 62-257, F.A.C.: Asbestos Notification and Fee, effective 02-09-99

CHAPTER 62-281, F.A.C.: Motor Vehicle Air Conditioning Refrigerant Recovery and
Recycling, effective 09-10-96

DADE COUNTY DERM CHAPTER 24

Dade County DERM Chp 24-17 [not part of SIP] : SO2

Dade County DERM Chp 24-19(6) [not part of SIP] : open burning

Dade County DERM Chp 24-20 [not part of SIP] : Storage and handling of petroleum

Dade County DERM Chp 24-24 [not part of SIP] : Sampling and testing.

Dade County DERM Chp 24-25 [not part of SIP] : Refrigerants.

Dade County DERM Chp 24-25.2 [not part of SIP] : Refrigerants – no vent.

Dade County DERM Chp 24-25.4 [not part of SIP] : sell or distribute refrig.

Dade County DERM Chp 24-26(1)(e) [not part of SIP] : Air pollution - nuisance

Dade County DERM Chp 24-27 [not part of SIP] : asbestos

Dade County DERM Chp 24-35.1(8) [not part of SIP] : Operating permits

Dade County DERM Chp 24-36 [not part of SIP] : Operation of facility

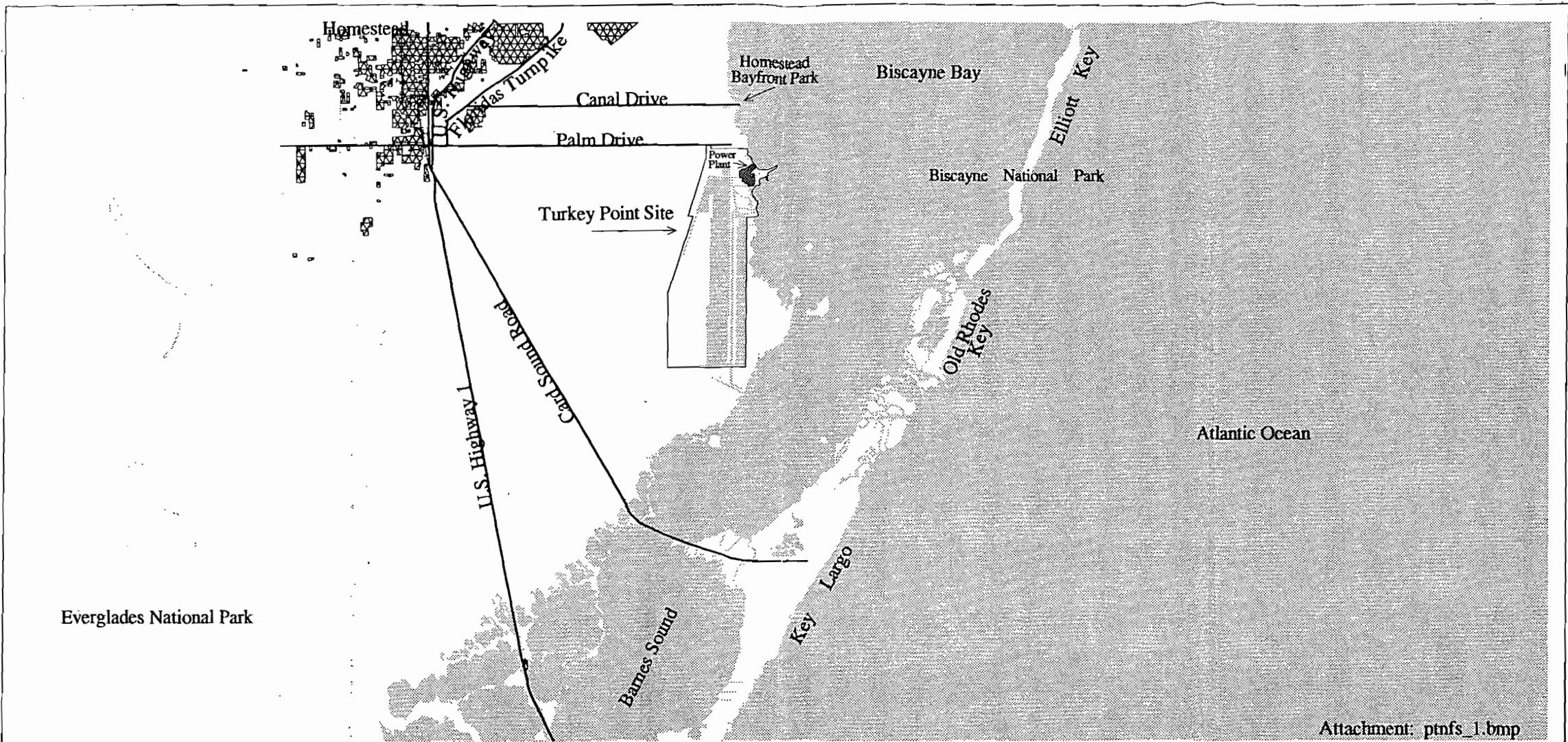
Dade County DERM Chp 24-37(1),(3) [not part of SIP] : Reports required; operations
allowed

Dade County DERM Chp 24-38 [not part of SIP] : Operating records

Dade County DERM Chp 24-39 [not part of SIP] : Circumvention

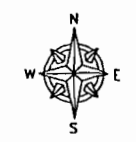
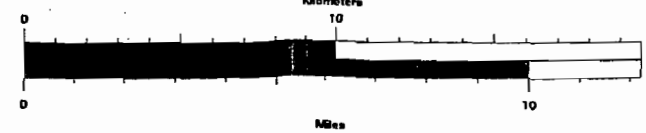
Dade County DERM Chp 24-54(3) [DEP rule by ref] : violations






ATTACHMENT PTNFS-1
FACILITY LOCATION MAP



Attachment: ptnfs_1.bmp

Turkey Point Area Map Dade County



-  Turkey Point Site
-  Water
-  Major Roads
-  Railroads
-  Residential Areas

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.

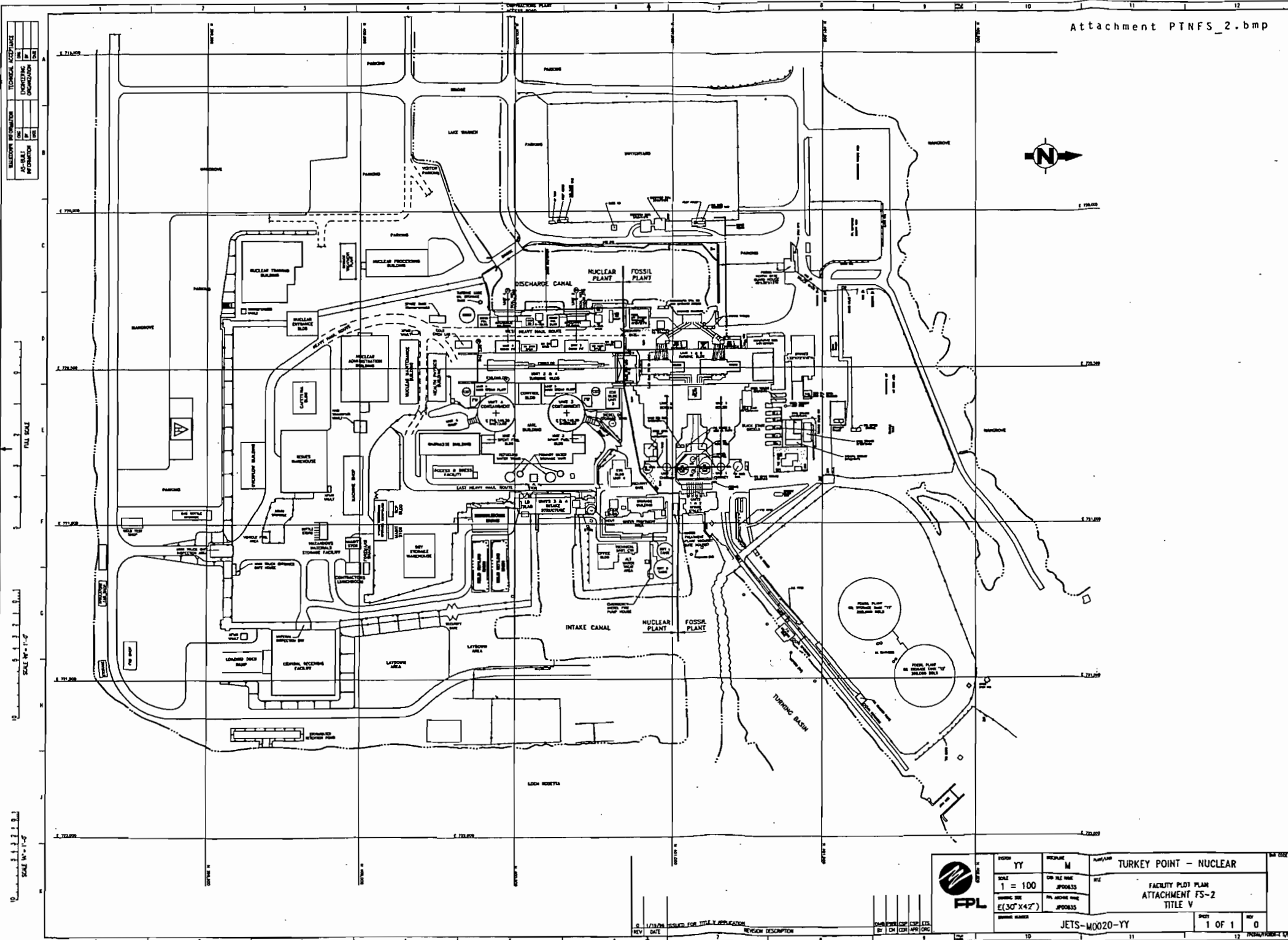
Source: Landuse data provided by South Florida Water Management District (1993)

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ATTACHMENT PTNFS-2
FACILITY PLOT PLAN

Best Available Copy

Attachment PTNFS_2.bmp



REVISION	DATE	BY	DESCRIPTION
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2			
3			
4			
5			

SCALE 1" = 100'

SCALE 1" = 100'

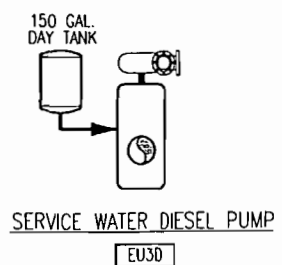
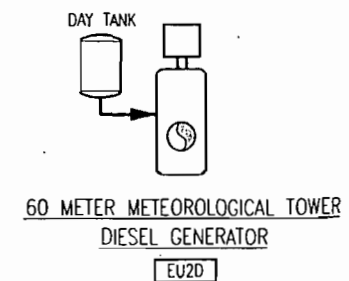
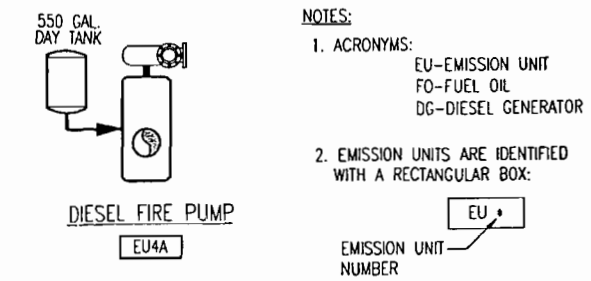
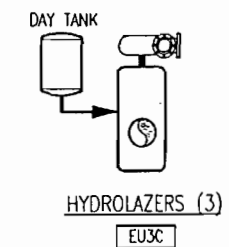
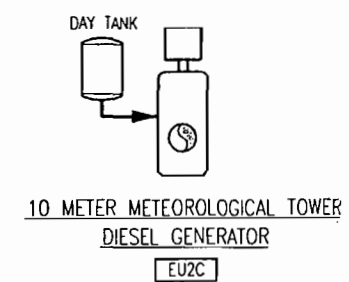
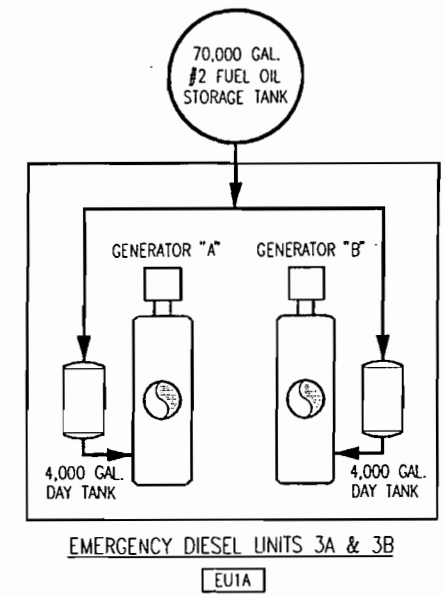
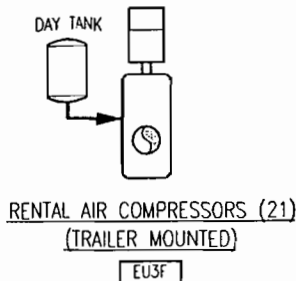
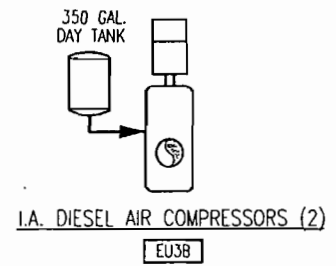
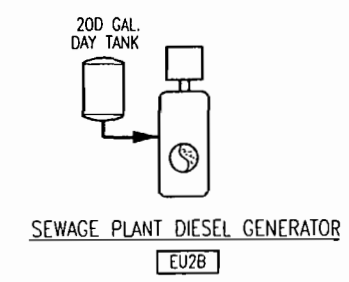
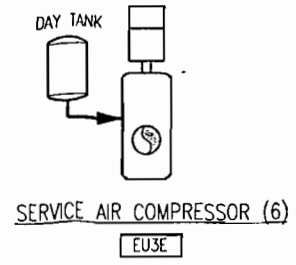
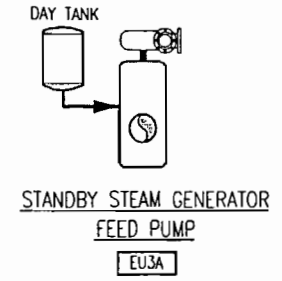
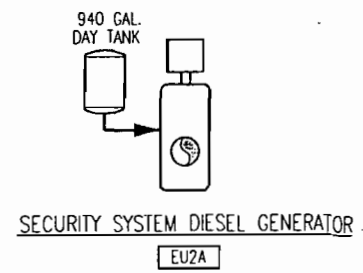
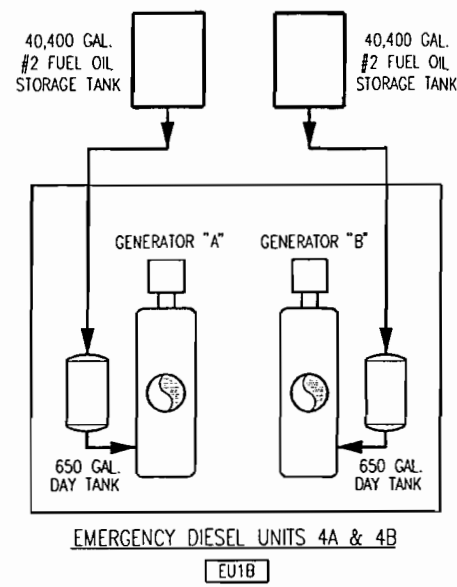
SCALE 1" = 100'



	DATE: YY SCALE: 1" = 100' DRAWING SIZE: E(30" x 42")	PROJECT: M DRAWING NO.: JPO0833 PROJECT NAME: JPO0833	TURKEY POINT - NUCLEAR FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V	SHEET NO.: 1 OF 1 TOTAL SHEETS: 0
	JETS-M0020-YY			SHEET NO.: 1 OF 1 TOTAL SHEETS: 0
	REVISIONS:			

ATTACHMENT PTNFS-3
PROCESS FLOW DIAGRAM

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



NOTES:

- ACRONYMS:
EU-EMISSION UNIT
FO-FUEL OIL
DG-DIESEL GENERATOR
- EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

EMISSION UNIT NUMBER

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"

0	8/4/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE	
	YY	M	TURKEY POINT PLANT-NUCLEAR		
	SCALE	CAD FILE NAME	TITLE		
	N/A	JP000627	FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 MISCELLANEOUS DIESEL ENGINES		
DRAWING SIZE	FPL ARCHIVE NAME	DRAWING NUMBER		SHEET	REV
B(11"x17")	JP000627	JETS-M0012-YY		1 OF 1	0

ATTACHMENT PTNFS-4

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

Attachment PTNFS_4
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

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

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

Operational measures are undertaken at the facility which also minimize particulate emissions, in accordance with 62-296.310 F.A.C.:

- Use of thick poly flaps over the doorways to prevent any sandblasting material from leaving the sandblast facility. The facility also constructs temporary sandblasting enclosures when necessary, in order to perform sandblasting on fixed plant equipment.
- Maintenance of paved areas as needed
- Regular mowing of grass and care of vegetation
- Limiting access to plant property by unnecessary vehicles.
- Bagged chemical products are stored in weather-tight buildings until they are used. Spills of powdered chemical products are cleaned up as soon as practicable.
- Vehicles are restricted to slow speeds on the plant site

ATTACHMENT PTNFS-5
FUGITIVE EMISSIONS IDENTIFICATION

Attachment PTNFS_5
Fugitive Emission Identification

Criteria and Precursor Air Pollutants

Fugitive particulate emissions are addressed in Attachment PTNFS_4.DOC. FPL is not aware of fugitive emissions of sulfur dioxide, nitrogen oxides, carbon monoxide or lead compounds which would exceed the reporting thresholds defined in the permit application instructions.

Fugitive HAPs Emissions

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

ATTACHMENT PTNFS-8

PROPOSED INSIGNIFICANT ACTIVITIES

Attachment PTNFS-8

List of Insignificant Activities

Attachment PTNFS-8

Following are several pages of insignificant activities at the facility. The activities identified in this application are provided for information only and are identified as examples of, but not limited to, the activities previously identified. It is understood that such activities do not have to be included in the with Title V Application. The activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in Rule 62-210.300(3)(a) and (b).

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

The facility is authorized under the current Title V permit to have categorical exemptions as listed in rule 62-210.300(3)(a).

Attachment PTNFS-8**List of Insignificant Activities**

Reactor Power Operation	Refueling Water Tank
Pressurizer	Fuel Pool Cooling
Reactor Drain Tank	Letdown Heat Exchanger
Safety Injection Tanks	RCP Seal Injection
Reactor Refueling	Misc Primary System Cooling
Containment Cleanup	Laundry Drain Tank
Containment Purge	Equipment Drain Tank
Plant Vent	Waste Hold-up Tanks
RCP Oil Collection Tank	Waste Ion Exchange & Filters
Volume Control Tank	Spent Resin Tank
Hol-Up Tanks	Liquid Radwaste Monitoring Tanks
Boric Acid Make-up Tanks	Waste Gas compressors
CVCS Ion Exchange & Filters	Surge Tank
Primary Water Tank/Degas	Gas Decay Tanks
Boric Acid Storage Tank	Control Room kitchen vents
Aux Building Exhaust	Control Room Toilet Vents
Chemical Add Tank	Lead Acid Battery Room Vents
high Pressure Safety Injection	Health Physics Office Vent
Low Pressure Safety Injection	Laundry Rooms Vents
Containment Spray	Resin transfer Operations

Attachment PTNFS-8**List of Insignificant Activities**

Chemical Hot Labs	Safety Relief Valves
RCS Sample System	Auxiliary Steam
PASS Sample System	Steam Generator Wet Lay-Up
Chemistry / HP Counting Rooms	Steam Generator Sluge Lancing
Demineralizer Water Tank	Steam Jet Air Ejector
Fuel Pool	Water Box Priming
Fuel Building Exhaust	Condenser Storage Tank & Degasifier
Diesel Oil Storage Tanks	Gland Steam Recovery Tank
Dry Storage Warehouse	Feed Pump Seal Leakoff / Tank
Offices / computer rooms	Condensate Polisher
Electrical generator H2	Chemical Addition Tanks
Electrical Generator CO2	Wet Lay-up System & tank
Lube Oil Vapor Extractor System	Steam Generator Blowdown
DEH System Reservoir	Chemistry Cold Lab
Turbine Cooling Water System	Chemistry Operations Offices
Excitor Cooling System	Chemistry Store Room
Turbine Switch Gear	Turbine Lube Oil Tank
Transformer Cooling Fans	Oily water separators
Transformer Maintenance	Satellite Accumulation Drum
Atmospheric Dumps	Used Oil collection

Attachment PTNFS-8**List of Insignificant Activities**

Screen Wash Collection Pit	Temporary Trailer Offices
Raw Water Storage Tank	Port-a-johns
Treated water storage tank	Flammable Liquid Storage Cabinets
Resin & Charcoal Vessels	Ranger Hut Vents
Neutralization Basin	Machine Shop Vents
Neutralization Tank	Sewage plant gases
Sulfuric Acid Tank	sludge tankers
Sodium Hydroxide Tanks	Maintenance Building Vents
Brine heating tank	Covered Work Area Vents
Degasifier	Cafeteria Vents
Water Treatment Plant control building	ANPO Offices vents
Equipment	Fire House materials
Gas house	Operations Support Center Vents
Nitrogen Dewar / Trailer	Warehouse offices Vents
Hydrogen tube trailer	Break Area Vents
hydrolazing	Carpenter Shop / Offices Vents
pesticide application	Weld Test Shop Vents
lawn maintenance	Backfit Maintenance Building Vents
Open Material Stockpiles	AC Shop Vents
Storm Basins	Security Building Vents

Attachment PTNFS-8

List of Insignificant Activities

HP/FFD/Site Med/Sec Office Vents

Speakout Vents

HP Support Office Vents

Nuclear Administration Building Vents

Radioactive Source building Vents

Backfit QC Buiding Vents

Shop Vents

Paint Building Vents

Oil Storage Building Vents

Haz Waste Storage Building Vents

Aerosol Can Puncturing

Switchyard transformer vents

Fitness Center Vents

Picnic Pavillion Vents

Gun Range

Day Care Center Vents

""Slime sucker"" pumps @ L.U."

Use of spray cans & solvents for routine maintenance

ATTACHMENT PTNFS-9

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

Attachment PTNFS_9
Equipment / Activities Regulated Under Title VI

The following equipment at the Turkey Point Nuclear plant contains CFC's in quantities greater than 50 pounds:

<u>Name of Unit</u>	<u>Section</u>	<u>Pounds CFC</u>
Training building	Chiller Room - 1st Floor	240
574A Computer Room	Control Room Roof	700
574B Computer Room	Control Room Roof	700
Nuclear Maintenance Building	Chiller on Roof	140
Nuclear Administration Building	1 Chiller in Chiller Room	192
Nuclear Administration Building	2 Chiller in Chiller Room	192
Construction building	West of Building	60
Nuclear Entrance Building	On Roof	106
Containment AC units (temporary)	Outside containment	170 (2)

Note that the facility houses over 100 pieces of additional CFC-containing equipment that contains less than 50 pounds of CFC. This number will fluctuate over time with overhauls, construction of new buildings, demolition of existing buildings and replacement of existing equipment.

ATTACHMENT PTNFS-13

COMPLIANCE REPORT AND PLAN

**Attachment PTNFS_13
Turkey Point Nuclear 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 PTNFS-14
COMPLIANCE CERTIFICATION



Mr. David Struhs, Secretary
Department of Environmental Protection
Executive Office
10th Floor Douglas Building
Commonwealth Boulevard
Tallahassee, Fl 32399

Re: Responsible Official Designation Title V Program
Permit # 0250003-002-AV

Dear Mr. Struhs:

This correspondence is to certify the "Responsible Official (s)" for the Title V Permit for Turkey Point Nuclear Plant, operated by Florida Power & Light Company. The following individual is authorized to act as the "Responsible Official (s)" for that facility, pursuant to State Rule 62-213, F.A.C.

Responsible Official	Title	Title V Facility
Vincent Laudato	Safety/ Environmental Supv	Turkey Point Nuclear Plant
Sean Fletcher	Environmental Compliance	Turkey Point Nuclear Plant

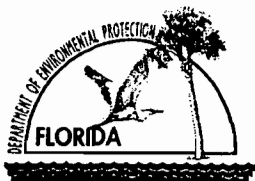
The designated "Responsible Official (s)" are hereby authorized to act on behalf of Florida Power & Light on all permit related activities for the facility.

Sincerely,

A handwritten signature in cursive script that reads "Terry O. Jones".

Terry O. Jones
Vice President
Turkey Point Nuclear Plant
Florida Power & Light Company

Cc: Vincent Laudato
Sean Fletcher



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.

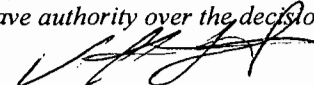
Identification of Facility

1. Facility Owner/Company Name: Florida Power and Light Company	
2. Site Name: Turkey Point Nuclear Plant	3. County: Miami-Dade
4. Title V Air Operation Permit/Project No. (leave blank for initial Title V applications): 0250003-002-AV	

Notification Type (Check one or more)

<input type="checkbox"/> INITIAL:	Notification of responsible officials for an initial Title V application.
<input checked="" type="checkbox"/> RENEWAL:	Notification of responsible officials for a renewal Title V application.
<input type="checkbox"/> CHANGE:	Notification of change in responsible official(s).
	Effective date of change in responsible official(s) <u>4/8/03</u>

Primary Responsible Official

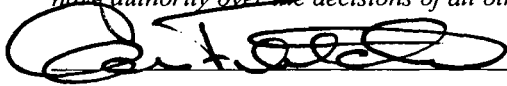
1. Name and Position Title of Responsible Official: Vincent Laudato, Safety/ Environmental Supervisor
2. Responsible Official Mailing Address: Organization/Firm: FPL Turkey Point Nuclear Plant Street Address: 9760 SW 344th Street City: Florida City State: FL Zip Code: 33035
3. Responsible Official Telephone Numbers: Telephone: (305) 246-7177 Fax: (305) 246-6783
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>4/15/03</u> _____ Date

Additional Responsible Official

1. Name and Position Title of Responsible Official: Sean Fletcher, Environmental Compliance Coordinator
2. Responsible Official Mailing Address: Organization/Firm: FPL Turkey Point Nuclear Plant Street Address: 9760 SW 344th Street City: Florida City State: FL Zip Code: 33035
3. Responsible Official Telephone Numbers: Telephone: (305)246-7301 Fax: (305) 246-6783
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.

5. Responsible Official Statement:

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.



Signature

4.15.03

Date

Emissions Unit Control Equipment

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

none

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit: Manufacturer: Electro-Motive Division of General Motors Model Number: Model 20-645-E4		
2. Generator Nameplate Rating:	2.5	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:	24.89	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>Maximum heat input rate reflects one emergency diesel generator. The requested operating hours is a value for all 4 generators together. Startup date for the generators = 1991.</p>		

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

List of Applicable Regulations

See Attachment PTN-EU005_Reg	

**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? Emergency generator unit 3A & 3B		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 3A & 3B can exhaust through a stack.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 20 feet	7. Exit Diameter: 1.83 feet	
8. Exit Temperature: 735 °F	9. Actual Volumetric Flow Rate: 23000 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): 567252.39 North (km): 2813481.61			
14. Emission Point Comment (limit to 200 characters): Stack exit diameter, actual volumetric flow rate and exit temperature were provided by the manufacturer, MKW Power Systems. Stack height is approximate.			

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

Emission Point Description and Type

2. Identification of Point on Plot Plan or Flow Diagram? Emergency generator unit 4A & 4B		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 3A & 3B can exhaust through a stack.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
6. Discharge Type Code: V	6. Stack Height: 20 feet	7. Exit Diameter: 1.83 feet	
8. Exit Temperature: 635 °F	9. Actual Volumetric Flow Rate: 23000 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): 567336.18 North (km): 2813482.03			
14. Emission Point Comment (limit to 200 characters): Stack exit diameter, actual volumetric flow rate and exit temperature were provided by the manufacturer, MKW Power Systems. Stack height is approximate.			

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): Low sulfur [0.5%] diesel fuel burned in the four main emergency diesel generating units.		
2. Source Classification Code (SCC): 2-01-002-02		3. SCC Units: Thousand Gallons burned
4. Maximum Hourly Rate: 0.183	5. Maximum Annual Rate: 1,603.2	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Value in field 4 reflects one emergency diesel generator [of the four included in this EU]. Startup date for the generators = 1991.		

Segment Description and Rate: Segment _____ of _____

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

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

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO_x	NA	NA	EL

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: 0
3. Potential Emissions: 448.2 lb/hour	4. Synthetically Limited? [] 1,962.2
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 0 to 0 tons/year	
6. Emission Factor: 4.5 lb/mmBtu Reference: Manufacturer Data	7. Emissions Method Code: 5
8. Calculation of Emissions (limit to 600 characters): 4.5 lb/mmBtu x 183 gph x 0.136 mmBtu/gal = 112 lb/hour 112 lb/hour x 4 diesel generators = 448 lb/hour x 8,760 hours/year x ton/2000 lb = 1,962.2 TPY	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): NO_x testing not required to be performed annually if the emission unit operates less than 400 hr/yr per generator [Rules 62-296.570(3) and 62-297.310(7)(a)3. and 4., F.A.C.]	

Allowable Emissions Allowable Emissions _____ of _____

1. Basis for Allowable Emissions Code: OTHER – emissions limit required by rule	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.75 lbs/mmBtu	4. Equivalent Allowable Emissions: 448 lb/hour 1,962.2 tons/year
5. Method of Compliance (limit to 60 characters): Annual compliance if operation ≥ 400 hr/yr/generator	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 4.75 lb/mmBtu is the current reg.limit [Rule 62-296.570(4)(b)7]on NO_x emissions. Equivalent allowable emissions are given for liquid fuel firing.	

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters): FDEP Rule 62-210.700(1). Allowed for start-up, shutdown and malfunction if the duration of excess emissions is minimized & total excess emission is 2 hr/24 hr	

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

Continuous Monitoring System: Continuous Monitor 1 of 1

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

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

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: PTNU1A_1 & PTNU1B_1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waive
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: PTNU1_2 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input checked="" type="checkbox"/> Attached, Document ID: PTNU1_6 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment: <p align="center">See Attachment PTNU1_10.</p>

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: <u>PTNU1_11</u> <input type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

ATTACHMENT PTN-EU005

LIST OF REGULATIONS

Turkey Point Nuclear Plant
File: PTN-EU005_Reg

State: (description)

STATIONARY SOURCES - GENERAL REQUIREMENTS

62-210.300(3)(a)22, F.A.C.: Exemptions.

62-210.700, F.A.C.: Excess Emissions.

STATIONARY SOURCES - EMISSION STANDARDS

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

62-296.570(4)(a)3, F.A.C.: Test exclusion

62-296.570(4)(b)7, F.A.C.: Diesel NOx limit

62-296.570(4)(c), F.A.C.: Excess Emissions.

OPERATION PERMITS FOR MAJOR SOURCES

62-213.400, F.A.C.: Permits and Permit Revisions Required.

62-213.410, F.A.C.: Changes Without Permit Revision.

62-213.460, F.A.C.: Permit Shield.

STATIONARY SOURCES - EMISSIONS MONITORING

62-297.310(2)(b), F.A.C.: General Test Requirements. Capacity

62-297.310(4)(a)2, F.A.C.: Opacity Compliance Tests.

62-297.310(5), F.A.C.: Process Variables.

62-297.310(7)(a)3.b, F.A.C.: Frequency of Compliance Tests.

62-297.310(7)(a)4.a, F.A.C.: Visible emissions.

62-297.310(7)(a)9., F.A.C.: Test Notification

62-297.310(8), F.A.C.: Test Reports.

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

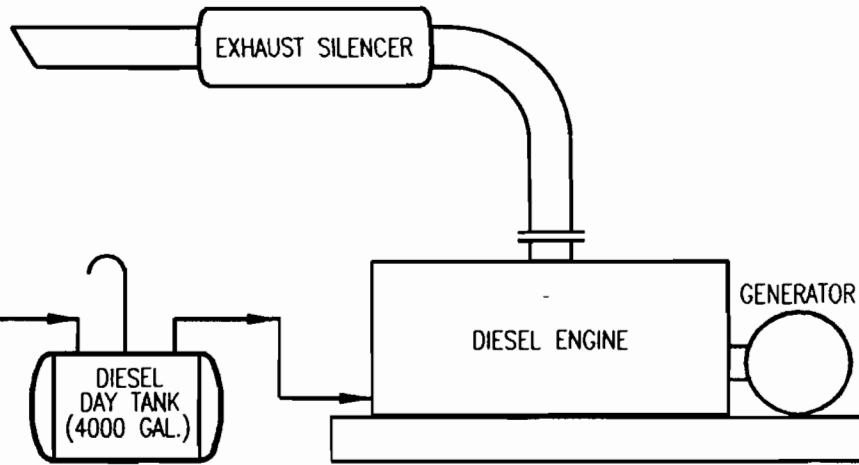
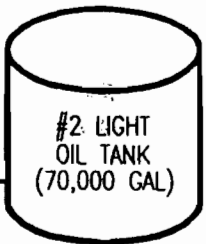
62-297.340, F.A.C.: Frequency of Compliance Tests.

62-297.350, F.A.C.: Determination of Process Variables.

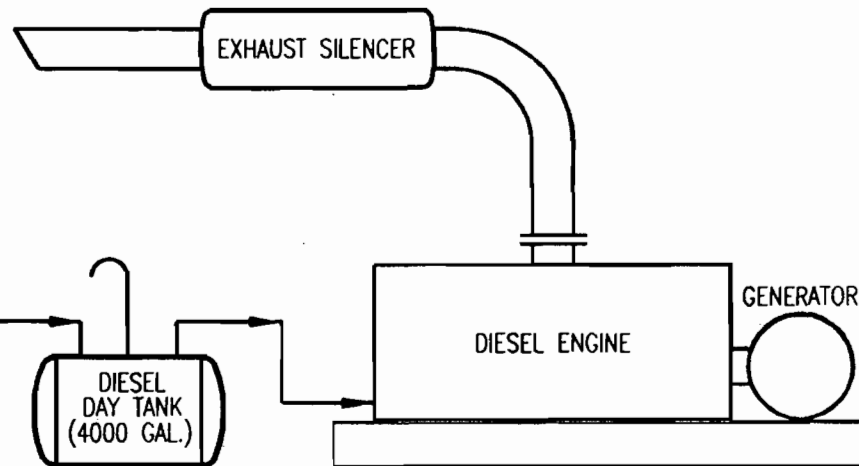
62-297.570, F.A.C.: Test Report.

62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

**ATTACHMENT PTNU1A-1
AND ATTACHMENT PTNU1B-1
PROCESS FLOW DIAGRAM**




UNIT 3A



UNIT 3B

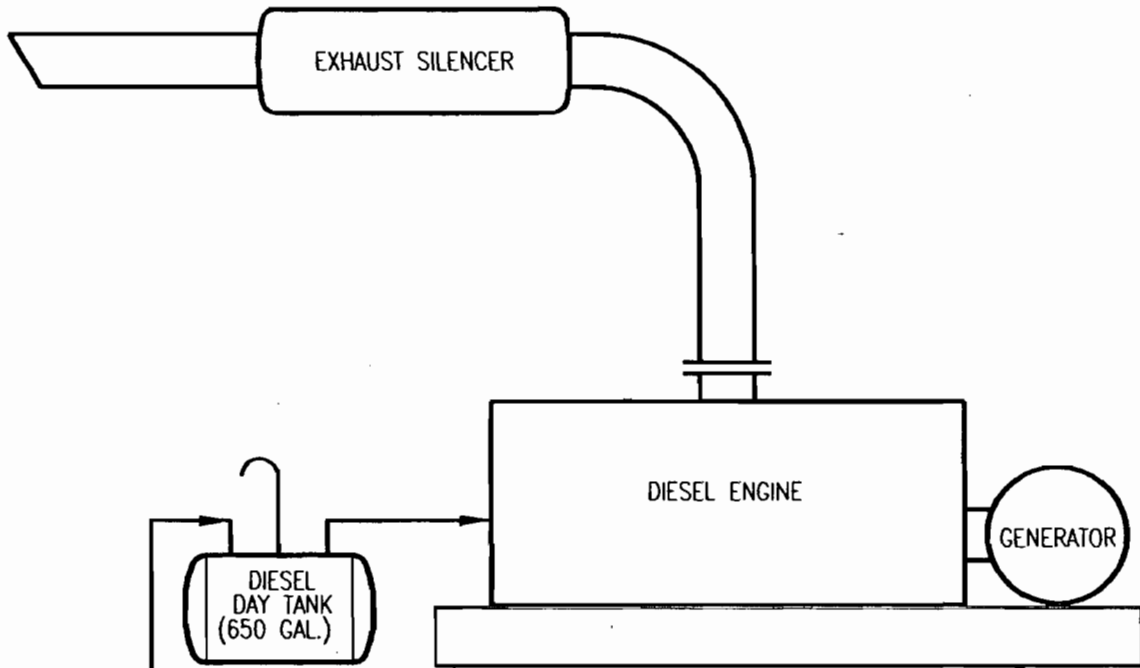
TECHNICAL ACCEPTANCE			
ORG	BY	DATE	
ENGINEERING ORGANIZATION			
ORG	BY	DATE	
WALKDOWN INFORMATION			
AS-BUILT INFORMATION			

BAR CODE

 FPL	SYSTEM YY	DISCIPLINE M	PLANT/UNIT TURKEY POINT NUCLEAR
	SCALE N/A	CAD FILE NAME JP000628	TITLE EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU1A
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME JP000628	
DRAWING NUMBER JETS-M0013-YY			SHEET 1 OF 1 REV 0

0	8/22/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	OCR	APR	ORG

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



BAR CODE

UNIT 4A & 4B

#2 LIGHT OIL TANK (40,400 GAL.)

DIESEL DAY TANK (650 GAL.)

DIESEL ENGINE

GENERATOR

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT TURKEY POINT NUCLEAR
	SCALE N/A	CAD FILE NAME JP000629	TITLE EMISSION UNIT FLOW DIAGRAM EMERGENCY DIESEL GENERATOR ATTACHMENT NO. EU1B
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME JP000629	
DRAWING NUMBER JETS-M0014-YY			SHEET 1 OF 1
REV 0 8/22/95 ISSUED FOR TITLE V PERMIT			REV 0

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
0	8/22/95	ISSUED FOR TITLE V PERMIT					

ATTACHMENT PTNU1-2
FUEL ANALYSIS OR SPECIFICATION

Attachment PTNU1_2

Fuel Analysis

Light Distillate oil (typical)*

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
API gravity @ 60 F	32-34 ¹	40 ¹
Relative density	285 lb / bbl ²	not available
Heat content	19,130 Btu / lb	not available
% sulfur	0.01 - 0.05 ¹	0.05 ¹
% nitrogen	9 mg / kg	not available
% ash	negligible	0.01 ¹

*Note: The values listed are "typical" values based upon 1) information FPL gathered by laboratory analysis, and 2) FPL's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

¹ Data taken from the FPL fuel purchasing specification

² Data from laboratory analysis

ATTACHMENT PTNU1-6
PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PTNU1_6

Procedures for Startup / Shutdown

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

-Startup for a typical 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 in accordance with Nuclear Regulatory commission specifications, and the purchase of diesel fuel that also meets these 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.

ATTACHMENT PTNU1_10
SUPPLEMENTAL REQUIREMENTS COMMENT

ATTACHMENT PTNU1_10

FPL requests clarification of Conditions A9 and A18 when these conditions are considered for the Title V renewal. Pursuant to Rule 62-296.570(3) F.A.C. FPL applied for an operation permit for RACT requirements. Included in this request was the compliance determination, which is reflected in Condition A18. This condition does not require either annual or renewal compliance testing if diesel fuel is used for less than 400 hours per year as allow under Rule 62-296.570(4)(a)3 F.A.C. This condition however should be clarified as follows:

A18. By this permit, annual and permit renewal compliance testing for NO_x is not required for these emission units while burning diesel fuel for less than 400 hours in each generator or engine **per year**. [Rule 62-296.570(3) and (4)(a)3 F.A.C.]

Condition A9 should be clarified to remove the sentence "However, a compliance test that demonstrates compliance with the applicable emission limiting standard shall be conducted prior to obtaining a renewed operation permit." This is standard language in Rule 62-297.310(7) F.A.C., which has been preempted by the Department's issuance of an operation permit for RACT that included the compliance requirement contained in Condition A18.

ATTACHMENT PTNU1-11
ALTERNATIVE METHODS OF OPERATION

Attachment PTNU1_11.doc
Alternative Methods of Operation

The main plant emergency diesel generators will operate on an as-needed basis in order to provide backup power to the nuclear plant equipment in the event of a loss of external power. A typical operation of the diesel generators is less than 400 hr/yr for each generator.

The main plant diesel generators are test-started and run several times per month in accordance with Nuclear Regulatory Commission (NRC) regulations, in order to assure operability if needed in the event of a loss of external power.

This equipment burns distillate oil fuel.

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 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 checked="" 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 type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.			
<input checked="" 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): Auxiliary Emergency Diesel Generators			
4. Emissions Unit Identification Number: 006			
<input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown			
5. Emissions Unit Status Code: A	6. Initial Startup Date: Vary with equip.	7. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [NO]
9. Emissions Unit Comment: (Limit to 500 Characters)			
The emission unit consists of five pieces of equipment [diesel generators] used for the security system, waste water treatment, and meteorological assessment. The initial startup dates, manufacturer and model numbers vary with each piece of equipment.			

Emissions Unit Control Equipment

<p>1. Control Equipment/Method Description (Limit to 200 characters per device or method):</p> <p style="margin-left: 40px;">NONE</p>
<p>2. Control Device or Method Code(s):</p>

Emissions Unit Details

<p>1. Package Unit: Manufacturer: Model Number:</p>						
<p>2. Generator Nameplate Rating: MW</p>						
<p>3. Incinerator Information:</p> <table style="width: 100%; margin-left: 40px;"> <tr> <td style="width: 60%;">Dwell Temperature:</td> <td style="width: 40%;">°F</td> </tr> <tr> <td>Dwell Time:</td> <td>seconds</td> </tr> <tr> <td>Incinerator Afterburner Temperature:</td> <td>°F</td> </tr> </table>	Dwell Temperature:	°F	Dwell Time:	seconds	Incinerator Afterburner Temperature:	°F
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:	4.08	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	400 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Information provided is for the security emergency diesel generator, which is the largest.		

C. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

List of Applicable Regulations

See Attachment PTN-EU005_Reg	

**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? PTN security system emergency diesel generator		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Five pieces of equipment [diesel generators] used for the security system, waste water treatment, and meteorological assessment.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 13 feet	7. Exit Diameter: 0.67 feet	
8. Exit Temperature: 1006 °F	9. Actual Volumetric Flow Rate: 3686 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): 567282.32 North (km): 2813081.87			
14. Emission Point Comment (limit to 200 characters):			

**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? PTN sewage system emergency diesel generator		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Five pieces of equipment [diesel generators] used for the security system, waste water treatment, and meteorological assessment.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 7.25 feet	7. Exit Diameter: 0.33 feet	
8. Exit Temperature: 847 °F	9. Actual Volumetric Flow Rate: 1114 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): 567086.79 North (km): 2813080.89			
14. Emission Point Comment (limit to 200 characters):			

**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? PTN meteorological tower emergency diesel generators		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Five pieces of equipment [diesel generators] used for the security system, waste water treatment, and meteorological assessment.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 7.25 feet	7. Exit Diameter: 0.33 feet	
8. Exit Temperature: 847 °F	9. Actual Volumetric Flow Rate: 1114 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):			
14. Emission Point Comment (limit to 200 characters): Stack height, exit diameter, temperature and flow rates are estimates.			

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

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in PTN security system emergency diesel generator		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.03	5. Maximum Annual Rate: 262.8	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in PTN sewage emergency diesel generators		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.015	5. Maximum Annual Rate: 131.4	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in PTN meteorological tower emergency diesel generators		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.003	5. Maximum Annual Rate: 26.3	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above is based on 3-gallons per hour of fuel consumption for the 2 met. Tower generators combined.		

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

1. Pollutant Emittted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO_x	NA	NA	EL

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: 28.79 lb/hour	4. Synthetically Limited? [] 126.1 tons/year
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 4.41 lb/MMBtu Reference: AP-42	7. Emissions Method Code: 3
8. Calculation of Emissions (limit to 600 characters): $4.41 \text{ LB/mmBtu} \times 15 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 9.0 \text{ lbs/hour}$ $4.41 \text{ LB/mmBtu} \times 1 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 0.6 \text{ lbs/hour}$ $4.41 \text{ LB/mmBtu} \times 2 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 1.2 \text{ lbs/hour}$ $4.41 \text{ LB/mmBtu} \times 30 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 17.99 \text{ lbs/hour}$ $9 + 0.6 + 1.2 + 17.99 = 28.79 \text{ lbs/hour}$ $28.79 \text{ LB/hr} \times 8,760 \text{ hr/yr} \times \text{ton}/2,000 = 126.1$	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): NO_x testing not required if less than 400 hr/yr/generator [Rule 62-296.570(3) and 62-297.310(7)(a)3. and 4. F.A.C.]	

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.75 lb/mmBtu	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance (limit to 60 characters): Annual compliance test if ≥ 400 hr/yr/generator.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 4.75 lb/mmBtu is the regulatory limit imposed by DEP Rule 62-296.570(4)(b)7.	

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	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:	
5. Visible Emissions Comment (limit to 200 characters): FDEP Rule 62-210.700(1). Allowed for start-up, shutdown and malfunction if the duration of excess emissions is minimized & total excess emission is 2 hr/24 hr.	

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

Continuous Monitoring System: Continuous Monitor 1 of 1

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	[X] Rule [] Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:	
5. Installation Date	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters): No CEM is required for the auxiliary emergency diesel generators.	

Emissions Unit Information Section 5 of 006 Other Emergency Diesel Generators

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

Supplemental Requirements

1. Process Flow Diagram [X] Attached, Document ID: PTNU2A_1 & PNTU2B_1 [] Not Applicable
2. Fuel Analysis or Specification [X] Attached, Document ID: PTNU2_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 PTNU2_6 [] Attached, Document ID: [] 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: See Attachment PTNU1_10.

Emissions Unit Information Section 5 of 006 Other Emergency Diesel Generators

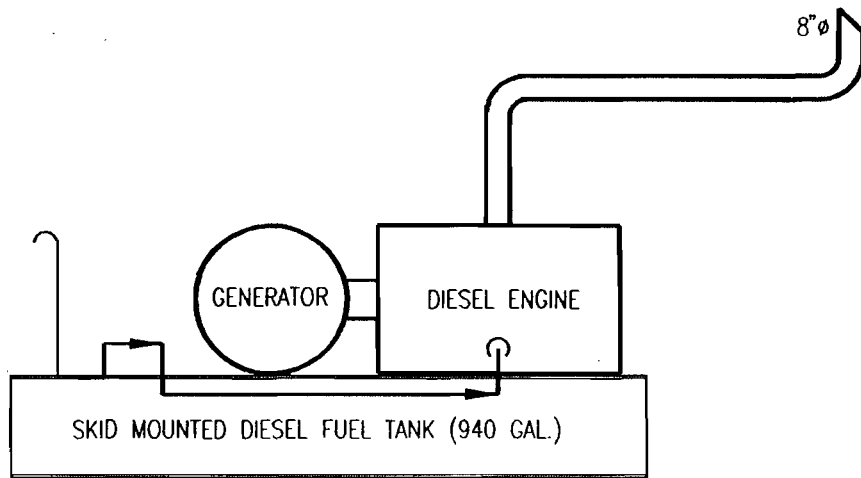
Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: PTNU2_11 <input type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**ATTACHMENT PTNU2A-1
AND ATTACHMENT PTNU2B-1**

PROCESS FLOW DIAGRAM


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



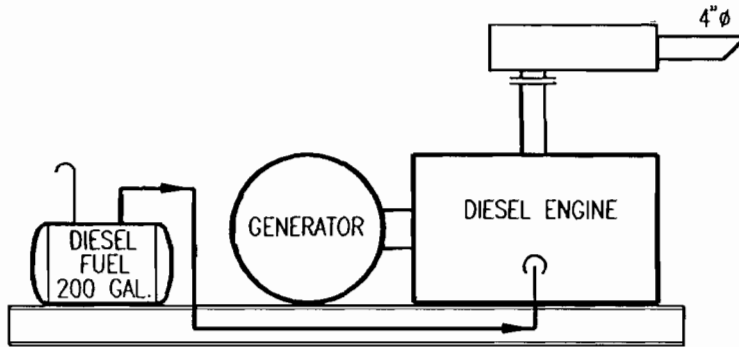
SECURITY SYSTEM DIESEL GENERATOR

BAR CODE

0	8/22/95	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 TURKEY POINT NUCLEAR
	SCALE N/A	CAD FILE NAME JP000630	TITLE EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU2A
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME JP000630	
DRAWING NUMBER JETS-M0015-YY			SHEET 1 OF 1
			REV 0

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

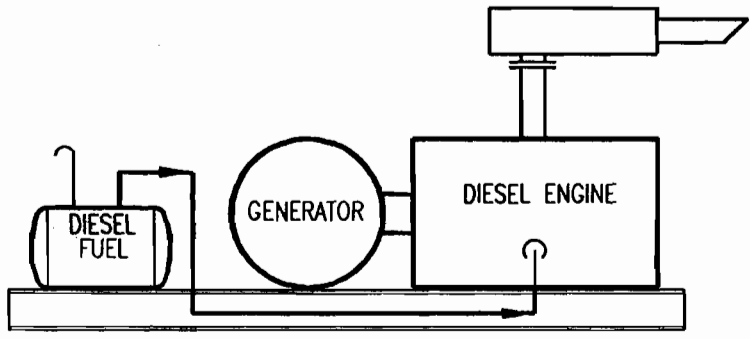


SEWAGE PLANT DIESEL GENERATOR

BAR CODE

	SYSTEM	DISCIPLINE	PLANT/UNIT
	YY	M	TURKEY POINT NUCLEAR
	SCALE	CAD FILE NAME	TITLE
N/A	JP000633	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU2B	
DRAWING SIZE	FPL ARCHIVE NAME		
A (8.5X11)	JP000633		
DRAWING NUMBER			SHEET
JETS-M0018-YY			1 OF 1
REV			REV
0	8/22/95	ISSUED FOR TITLE V PERMIT	0
REV	DATE	REVISION DESCRIPTION	REV

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



10 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

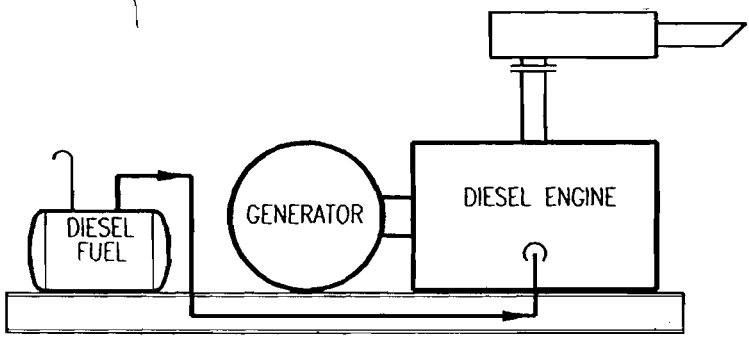
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REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT
	YY	M	TURKEY POINT NUCLEAR
	SCALE	CAD FILE NAME	TITLE
N/A	JP000636	EMISSION UNIT FLOW DIAGRAM	
DRAWING SIZE	FPL ARCHIVE NAME	MISCELLANEOUS DIESELS	
A (8.5X11)	JP000636	ATTACHMENT NO. EU2C	

DRAWING NUMBER	SHEET	REV
JETS-M0018-YY	1 OF 1	0


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



60 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

BAR CODE

0	8/22/95	ISSUED FOR TITLE V PERMIT	FWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	DRG

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	TURKEY POINT NUCLEAR
	SCALE	N/A	CAD FILE NAME	JP000637	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU2D
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000637		
DRAWING NUMBER					JETS-M0022-YY	
					SHEET	1 OF 1
					REV	0

ATTACHMENT PTNU2-2

FUEL ANALYSIS OR SPECIFICATION

Attachment PTNU2_2

Fuel Analysis

Light Distillate oil (typical)*

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
API gravity @ 60 F	32-34 ¹	40 ¹
Relative density	285 lb / bbl ²	not available
Heat content	19,130 Btu / lb not available	
% sulfur	0.01 - 0.05 ¹	0.05 ¹
% nitrogen	9 mg / kg	not available
% ash	negligible	0.01 ¹

*Note: The values listed are "typical" values based upon 1) information FPL gathered by laboratory analysis, and 2) FPL's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

¹ Data taken from the FPL fuel purchasing specification

² Data from laboratory analysis

ATTACHMENT PTNU2-6
PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PTNU2_6

Procedures for Startup / Shutdown

The emergency diesel generators are the main backup power supply components for the nuclear plant security system, sewage plant, and meteorological tower. The function of the emergency diesel generators are to supply electric power to various plant equipment during loss-of-power situations. This equipment is typically test-run on a monthly basis to ensure that it will function properly when needed in an emergency.

Startup for a typical emergency diesel generator begins with actuating a switch which sends an electric signal to a starter motor on the diesel engine which "turns over" the diesel engine until ignition of the diesel fuel commences.

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

Best Operating Practices include proper maintenance of the diesel engine on the generating unit, and monitoring the visible emissions from the emergency diesel generator to ensure that the opacity limitation is not exceeded. All efforts to minimize both the level and duration of excess emissions are undertaken.

ATTACHMENT PTNU2-11
ALTERNATIVE METHODS OF OPERATION

Attachment PTNU2_11

Alternative Methods of Operation

The auxiliary diesel generators are fired with light distillate oil fuel. Operating hours on the diesel generators is typically less than 400 hours per year.

Each emergency diesel generator is typically started up at least once per month and run for about 1/2 hour to ensure operability if needed to provide backup power to various plant operating equipment or to the meteorological towers.

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 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 checked="" 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 type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Miscellaneous diesel equipment</p>			
<p>4. Emissions Unit Identification Number: 007</p> <p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>			
<p>5. Emissions Unit Status Code: A</p>	<p>6. Initial Startup Date:</p>	<p>7. Emissions Unit Major Group SIC Code: 49</p>	<p>8. Acid Rain Unit? [NO]</p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters) EU consists of the following miscellaneous diesel plant equipment: [6] service air compressor diesel engines; [2] instrument air compressor diesel engines; [1] standby steam generator feed pump diesel engine; [1] service water diesel pump; plus there may be as many as 40 FPL-owned and rental diesel air compressors on site at any given time, for overhauls & various maintenance activities. These are typically mounted on small trailers.</p>			

Emissions Unit Control Equipment

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

None

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer: **Catapillar**

Model Number: **unknown**

2. Generator Nameplate Rating: **0**

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:	5.848	mmBtu/hr
2. Maximum Incineration Rate:	0 lb/hr	0 tons/day
3. Maximum Process or Throughput Rate:		
4. Maximum Production Rate:		
5. Requested Maximum Operating Schedule:		
	hours/day	days/week
	weeks/year	8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters): Information provided is for the standby steam generator feed pump [SSGFP]diesel, which is the largest of the diesel equipment in this emission unit.		

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

List of Applicable Regulations

See Attached file: PTN-EU005_Reg	

**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? PTN instrument air compressor diesel engine		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Air compressors engines;; SSGFP; service water diesel pump			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 12 feet	7. Exit Diameter: 0.33 feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 567196.67 North (km): 2813450.57			
14. Emission Point Comment (limit to 200 characters): Information above is for one instrument air compressor located on unit 3 and there are two at this site.			

**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? PTN standby steam generator feedpump diesel engine		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Air compressors engines;; SSGFP; service water diesel pump			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: 864 °F	9. Actual Volumetric Flow Rate: 5025 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): 567253.46 North (km): 2813266.29			
14. Emission Point Comment (limit to 200 characters):			

**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? PTN service water diesel pump		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Air compressors engines;; SSGFP; service water diesel pump			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 8 feet	7. Exit Diameter: 0.33 feet	
8. Exit Temperature: 770 °F	9. Actual Volumetric Flow Rate: 1120 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): 567419.67 North (km): 2813543.97			
14. Emission Point Comment (limit to 200 characters):			

**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? PTN diesel air compressors		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Air compressors engines;; SSGFP; service water diesel pump			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: V	6. Stack Height: 6 feet	7. Exit Diameter: 0.5 feet	
8. Exit Temperature: 850 °F	9. Actual Volumetric Flow Rate: 904 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: East (km): North (km):			
15. Emission Point Comment (limit to 200 characters): There may be as many as 40 FPL-owned and rental diesel air compressors on site at any given time, for overhauls & various maintenance activities. These are typically mounted on small trailers.			

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 fired in the Standby Steam Generator Diesel Feedpump		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.043	5. Maximum Annual Rate: 17.2	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information above for the SSGDFP reflects 400 hours of operation per year		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in the service water diesel pump		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
3. Maximum Hourly Rate: 0.077	4. Maximum Annual Rate: 3.08	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided for the service water diesel pump for 400 hours of operation per year		

**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 fired in the three permanent diesel air compressors		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.0446	5. Maximum Annual Rate: 17.84	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: : 0.01	11. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided for the six permanent diesel air compressors reflects 400 hours of operation per year each.		

Segment Description and Rate: Segment _____ of _____

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in 21 rental diesel air compressors		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.252	5. Maximum Annual Rate: 100.8	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: : 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the combined fuel usage of the rental diesel air compressors [21 each] at 400 hours of operation per year of operation each.		

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 fired in instrument air diesel air compressors		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.252	5. Maximum Annual Rate: 100.8	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: : 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the combined fuel usage of the instrument air diesel air compressors [2 each] at 400 hours of operation per year of operation.		

Segment Description and Rate: Segment _____ of _____

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

F. EMISSIONS UNIT POLLUTANTS
(All Emissions Units)

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NO _x	NA	NA	EL

**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: 240.68 lb/hour		4. Synthetically Limited? [] 1,054.2 tons/year	
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year			
6. Emission Factor: 4.41 lb/MMBtu Reference: AP-42		7. Emissions Method Code: 3	
8. Calculation of Emissions (limit to 600 characters): $4.41 \text{ LB/mmBtu} \times 43 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 25.78 \text{ lbs/hour [S.S.G.F]}$ $4.41 \text{ LB/mmBtu} \times 15 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 9 \text{ lb/hr} \times 2 = 18 \text{ lbs/hour [Inst.Air diesels]}$ $4.41 \text{ LB/mmBtu} \times 8 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 4.8 \text{ lb/hr} \times 3 = 14.39 \text{ lbs/hour [hydrolazers]}$ $4.41 \text{ LB/mmBtu} \times 44.6 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 26.75 \text{ lbs/hour [Dsl.Air Comp., 6es, combined]}$ $4.41 \text{ LB/mmBtu} \times 7.7 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 4.62 \text{ lbs/hour [service wtr diesel pmp]}$ $4.41 \text{ LB/mmBtu} \times 12 \text{ gph} \times 0.136 \text{ mmBtu/gal} = 7.2 \text{ lb/hr} \times 21 = 151.14 \text{ lbs/hour [rental air comp.]}$ $25.78 + 186 + 14.39 + 26.75 + 4.62 + 151.14 = 240.68 \text{ lbs/hour combined total}$ $240.68 \text{ LB/hr} \times 8,760 \text{ hr/yr} \times \text{ton}/2,000 \text{ lb} = 1,054.2 \text{ TPY}$			
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters): NO_x testing not required in less than 400 hr/yr/generator [Rule 62-296.570(3) and 62-297.310(7)(a)3. and 4. F.A.C.			

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: OTHER		2. Future Effective Date of Allowable Emissions:	
3. Requested Allowable Emissions and Units: 4.75 lb/mmBtu		4. Equivalent Allowable Emissions: lb/hour 1,054.2 tons/year	
5. Method of Compliance (limit to 60 characters): Annual compliance testing if ≥ 400 hr/yr/generator.			
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): 4.75 lb/mmBtu is the regulatory limit imposed by DEP Rule 62-296.570(4)(b)7.			

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [X] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters): Allowed for start-up, shutdown and malfunction if the duration of excess emissions is minimized & total excess emission is 2 hr/24 hr [Rule 62-210.700(1)].	

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

Continuous Monitoring System: Continuous Monitor 1 of 1

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

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

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: PTNU3A_1, PTNU3B_1, PTNU3D_1, PTNU3E_1, PTNU3F_1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: PTNU3_2 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input checked="" type="checkbox"/> Attached, Document ID: PTNU3_6 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Supplemental Requirements Comment: See Attachment PTNU1_10

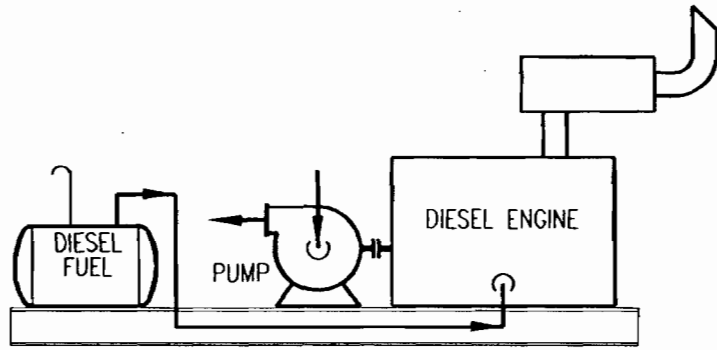
Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation [X] Attached, Document ID: PTNU3_11 [] 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 PTNU3A-1
ATTACHMENT PTNU3B-1
ATTACHMENT PTNU3D-1
ATTACHMENT PTNU3E-1
ATTACHMENT PTNU3F-1**

PROCESS FLOW DIAGRAM


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



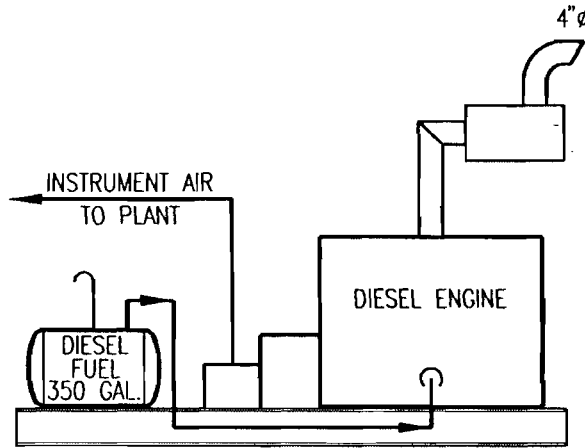
STANDBY STEAM GENERATOR FEED PUMP

BAR CODE

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REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	TURKEY POINT NUCLEAR
	SCALE	N/A	CAD FILE NAME	JP000638	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3A
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000638		
DRAWING NUMBER					JETS-M0023-YY	
					SHEET	1 OF 1
					REV	0

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



INSTRUMENT AIR
DIESEL AIR COMPRESSOR (2)

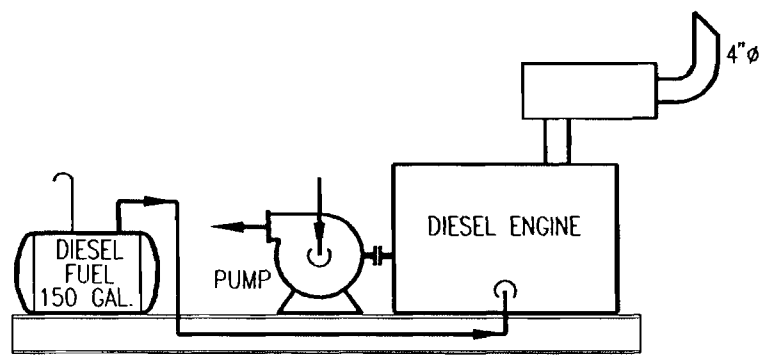
BAR CODE

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REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM YY	DISCIPLINE M	PLANT/UNIT TURKEY POINT NUCLEAR
	SCALE N/A	CAD FILE NAME JP000634	TITLE EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO: EU3B
	DRAWING SIZE A (8.5X11)	FPL ARCHIVE NAME JP000634	
DRAWING NUMBER JETS-M0019-YY			SHEET 1 OF 1
			REV 0

ATTACHMENT: PTNU3D_1.bmp

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



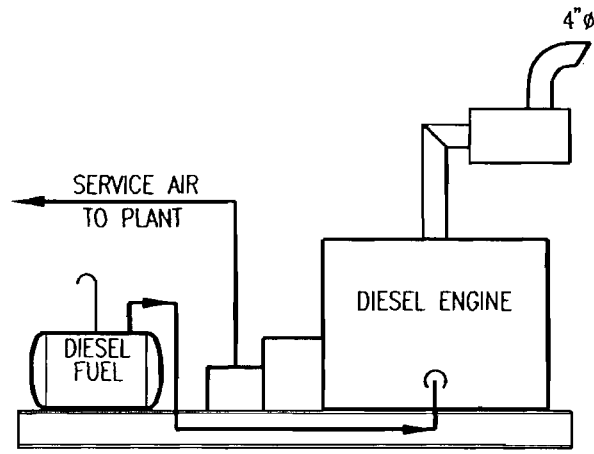
SERVICE WATER DIESEL PUMP

BAR CODE

0	8/22/95	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	TURKEY POINT NUCLEAR			
	SCALE	N/A	CAD FILE NAME	JP000632	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS			
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000632	ATTACHMENT NO.	EU3D			
DRAWING NUMBER					JETS-M0017-YY	SHEET	1 OF 1	REV	0

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



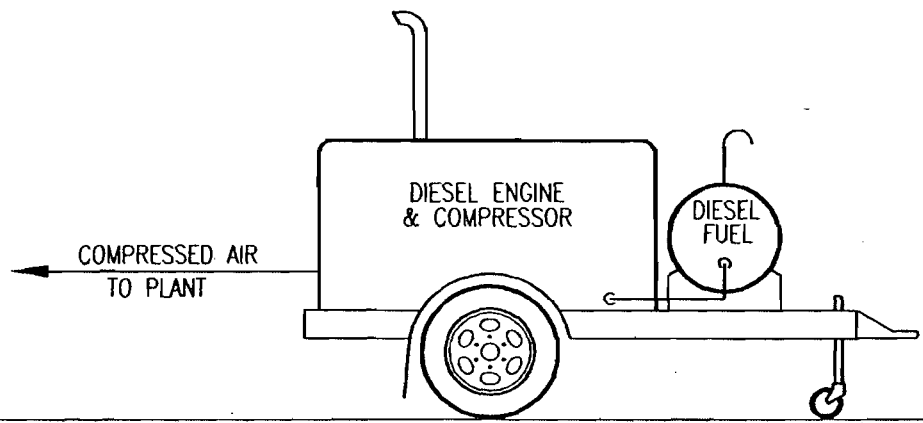
SERVICE AIR COMPRESSORS (6)

BAR CODE

REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG
0	8/22/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS


	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	TURKEY POINT NUCLEAR
	SCALE	N/A	CAD FILE NAME	JP000639	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3E
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000639		
DRAWING NUMBER					JETS-M0024-YY	
					SHEET	1 OF 1
					REV	0

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



RENTAL AIR COMPRESSORS (21)

BAR CODE

 FPL	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	TURKEY POINT NUCLEAR							
	SCALE	N/A	CAD FILE NAME	JP000640	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3F							
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000640									
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG	DRAWING NUMBER	JETS-M0025-YY	SHEET	1 OF 1	REV	0

ATTACHMENT PTNU3-2
FUEL ANALYSIS OR SPECIFICATION

Attachment PTNU3_2

Fuel Analysis

Light Distillate oil (typical)*

<u>Parameter</u>	<u>Typical value</u>	<u>Max value</u>
API gravity @ 60 F	32-34 ¹	40 ¹
Relative density	285 lb / bbl ²	not available
Heat content	19,130 Btu / lb	not available
% sulfur	0.01 - 0.05 ¹	0.05 ¹
% nitrogen	9 mg / kg	not available
% ash	negligible	0.01 ¹

*Note: The values listed are "typical" values based upon 1) information FPL gathered by laboratory analysis, and 2) FPL's fuel purchasing specifications. However, analytical results from grab samples of fuel taken at any given point in time may vary from those listed.

¹ Data taken from the FPL fuel purchasing specification

² Data from laboratory analysis

ATTACHMENT PTNU3-6
PROCEDURES FOR STARTUP AND SHUTDOWN

Attachment PTNU3_6

Procedures for Startup / Shutdown

The diesel driver is the motive power supply component for the nuclear steam boiler diesel driven feed pump. The function of the diesel driver is to supply motive power to the standby steam generator feed pump during loss-of-power situations. This equipment is typically test-run on a monthly basis to ensure that it will function properly when needed in an emergency.

Startup for the diesel driver begins with actuating a switch which sends an electric signal to a starter motor on the diesel engine which "turns over" the diesel engine until ignition of the diesel fuel commences.

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

Best Operating Practices include proper maintenance of the diesel engine on the generating unit, and monitoring the visible emissions from the emergency diesel generator to ensure that the opacity limitation is not exceeded. All efforts to minimize both the level and duration of excess emissions are undertaken.

ATTACHMENT PTNU3-11
ALTERNATIVE METHODS OF OPERATION

Attachment PTNU3_11

Alternative Methods of Operation

The miscellaneous diesel equipment is fired with light distillate oil fuel. Operating hours on the miscellaneous diesel equipment is typically less than 400 hours per year.

Miscellaneous diesel equipment is typically started as needed to provide air or other services to various plant operating equipment.

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.

**9. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

9. Type of Emissions Unit Addressed in This Section: (Check one) <input 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 checked="" 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 type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. <input checked="" 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): Unregulated emission units			
4. Emissions Unit Identification Number: [008] No ID [] ID Unknown			
9. Emissions Unit Status Code: A	9. Initial Startup Date:	9. Emissions Unit Major Group SIC Code: 49	8. Acid Rain Unit? [No]
9. Emissions Unit Comment: (Limit to 500 Characters) This emission units section covers all unregulated sources at the Turkey Point Nuclear Site that are not addressed elsewhere in this application. Please refer to Attachment PTN-FW for a list of included sources. Note: this section includes the diesel fire pump, which is exempted form permitting by DEP Rule 62-210.300(3)(a)21, and is also exempted from NO_x RACT by DEP Rule 62-296.570(1)(b).			

Emissions Unit Control Equipment

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

None

2. Control Device or Method Code(s):

Emissions Unit Details

1. Package Unit:

Manufacturer:

Model Number:

2. Generator Nameplate Rating:

MW

3. Incinerator Information:

Dwell Temperature:

°F

Dwell Time:

seconds

Incinerator Afterburner Temperature:

°F

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

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:	mmBtu/hr		
2. Maximum Incineration Rate:	lb/hr	tons/day	
3. Maximum Process or Throughput Rate:			
4. Maximum Production Rate:			
5. Requested Maximum Operating Schedule:	hours/day	days/week	
	weeks/year	400	hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):			
<p>This emission unit is comprised of various emission units that may include diesel engines that would operate up to 400 hours per year each, and by such avoid the requirement for compliance testing per DEP Rule 62-297.340(1)(c)2.</p>			

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

List of Applicable Regulations

Attachment PTN-EU003 – Reg.	

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? PTN fire system diesel pump		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point): Unregulated Emission Units 008			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: H	6. Stack Height: 6 feet	7. Exit Diameter: 0.5 feet	
8. Exit Temperature: 980 °F	9. Actual Volumetric Flow 3,190 acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: 17 dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 567447.6 North (km): 2813544.11			
14. Emission Point Comment (limit to 200 characters):			

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

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Diesel fuel fired in the unregulated plant equipment.		
2. Source Classification Code (SCC): 2-01-001-02		3. SCC Units: Thousand gallons burned
4. Maximum Hourly Rate: 0.018	5. Maximum Annual Rate: 7.2	6. Estimated Annual Activity Factor: 136
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided reflects the fire system diesel pump at 400 hours per year of operation.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type) (limit to 500 characters): Above ground tank #3U – working and breathing loss		
2. Source Classification Code (SCC): 4-03-010-21		3. SCC Units: thousand gallons transferred or handled
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor: 160,000
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.01	9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Breathing loss = 36.73 lbs VOC / yr Working loss = 7.10 lbs VOC / yr Total estimated losses = 0.02 TPY, using the estimated activity factor given above.		

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

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

**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? [Yes]
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):			

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

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

3. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: [] Rule [X] Other
3. Requested Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters): Allowed for start-up, shutdown and malfunction if the duration of excess emissions is minimized & total excess emission is 2 hr/24 hr [Rule 62-210.700(1)].	

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

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

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

Supplemental Requirements

1. Process Flow Diagram <input checked="" type="checkbox"/> Attached, Document ID: PTNU4A_1 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input checked="" type="checkbox"/> Attached, Document ID: PTNU3_2 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

ATTACHMENT PTN-EU008
APPLICABLE REGULATIONS

Turkey Point Nuclear Plant
File: PTN-EU008_Reg

[Note: unregulated sources]

State: (description)

STATIONARY SOURCES - GENERAL REQUIREMENTS

62-210.300(3)(a)22, F.A.C.: Exemptions.

62-210.700(1),(4),(5),(6), F.A.C.: Excess Emissions.

OPERATION PERMITS FOR MAJOR SOURCES

62-213.400, F.A.C.: Permits and Permit Revisions Required.

62-213.410, F.A.C.: Changes Without Permit Revision.

62-213.460, F.A.C.: Permit Shield.

STATIONARY SOURCES - EMISSION STANDARDS

62-296.320(1)(b), F.A.C.: Applicability.

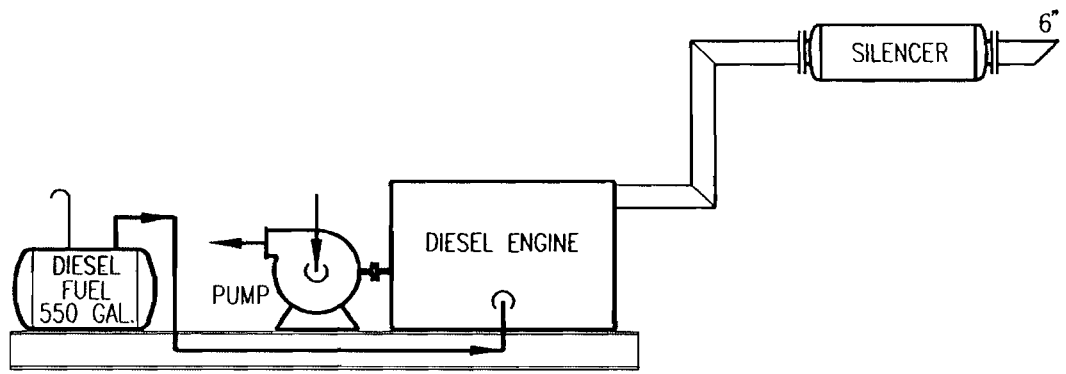
62-296.570(4)(a)3, F.A.C.: Test exclusion

62-296.570(4)(b)7, F.A.C.: Diesel NOx limit

62-296.570(4)(c), F.A.C.: Excess Emissions.

ATTACHMENT PTNU4A-1
PROCESS FLOW DIAGRAM

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



FIRE PUMP DIESEL

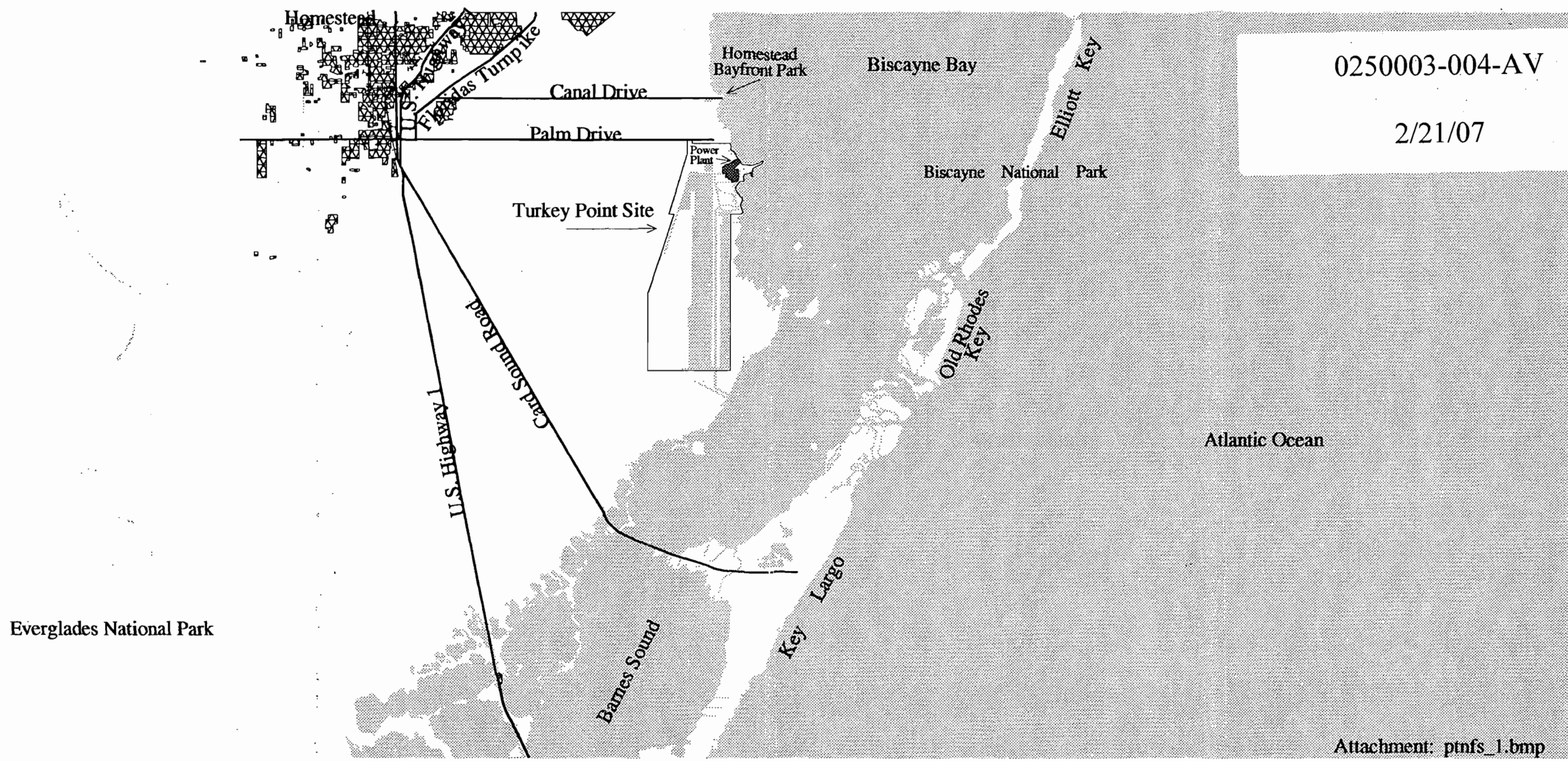
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REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	YY	DISCIPLINE	M	PLANT/UNIT	TURKEY POINT NUCLEAR
	SCALE	N/A	CAD FILE NAME	JP000631	TITLE	EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU4A
	DRAWING SIZE	A (8.5X11)	FPL ARCHIVE NAME	JP000631		
DRAWING NUMBER					JETS-M0016-YY	
					SHEET	1 OF 1
					REV	0

0250003-004-AV

2/21/07



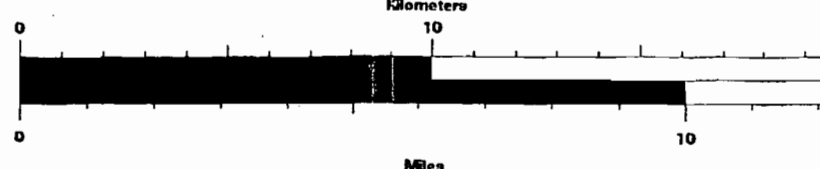
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Turkey Point Area Map

Dade County



Environmental
FPL Affairs



-  Turkey Point Site
-  Water
-  Major Roads
-  Railroads
-  Residential Areas

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Source: Landuse data provided by South Florida Water Management District (1993)

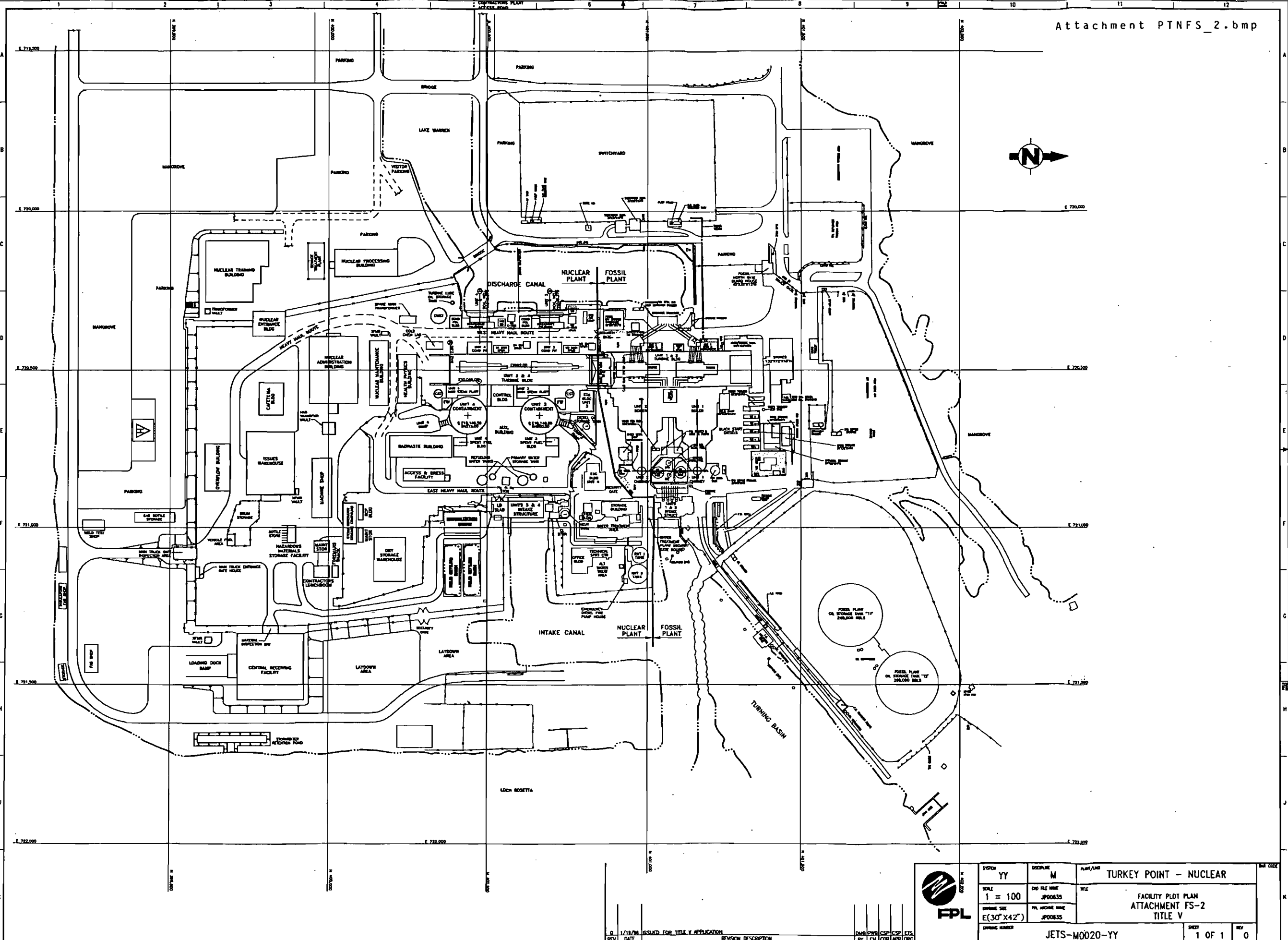
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TECHNICAL ACCEPTANCE	
DESIGNING ORGANIZATION	DATE
ISSUE NO.	DATE
REVISION NO.	DATE

FULL SCALE

SCALE 1/4" = 1'-0"

SCALE 1/4" = 1'-0"

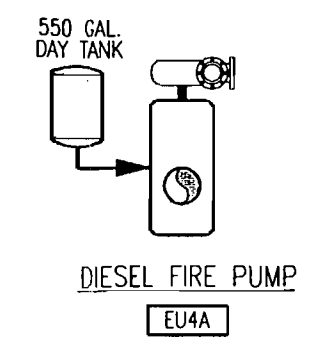
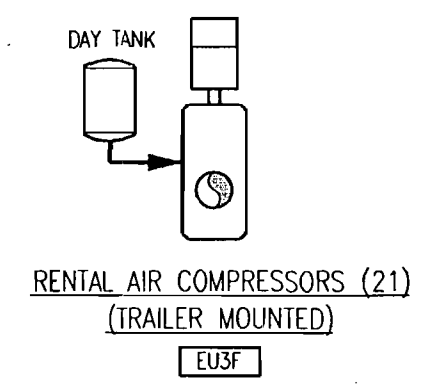
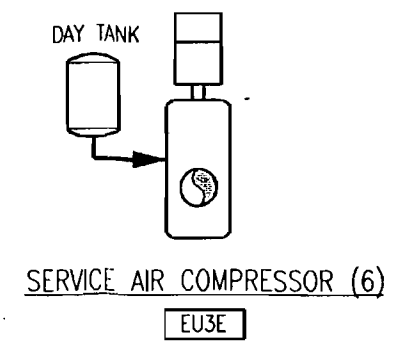
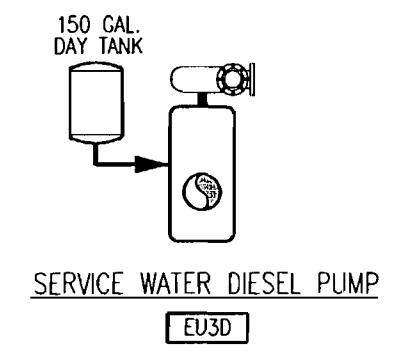
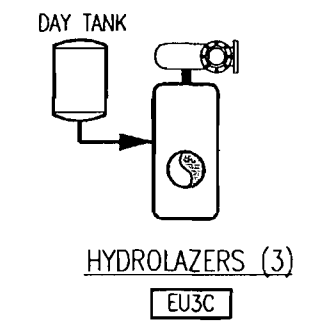
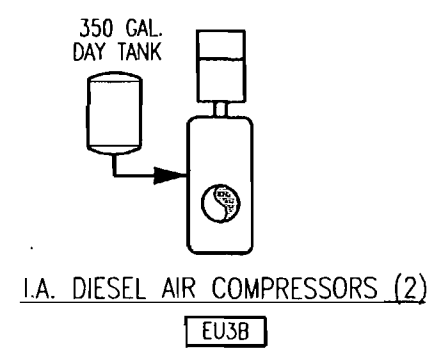
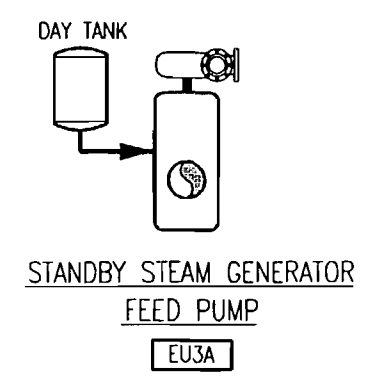
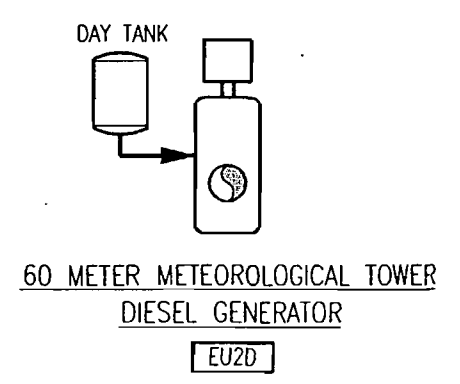
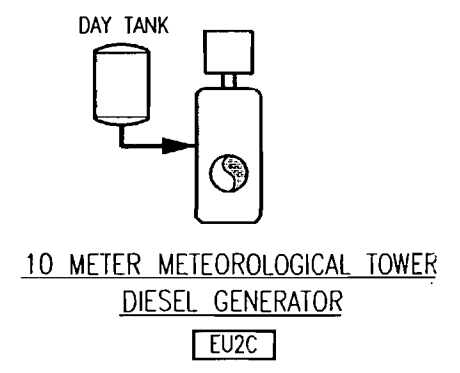
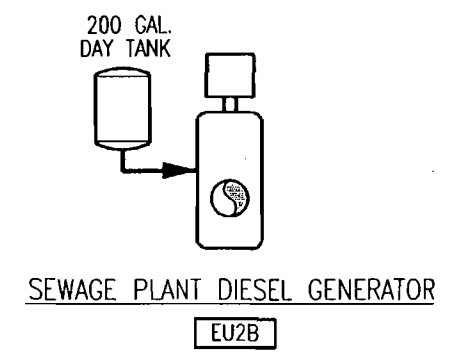
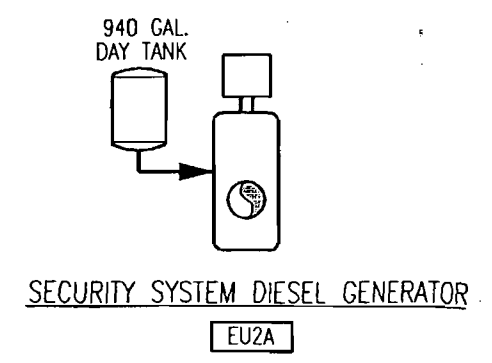
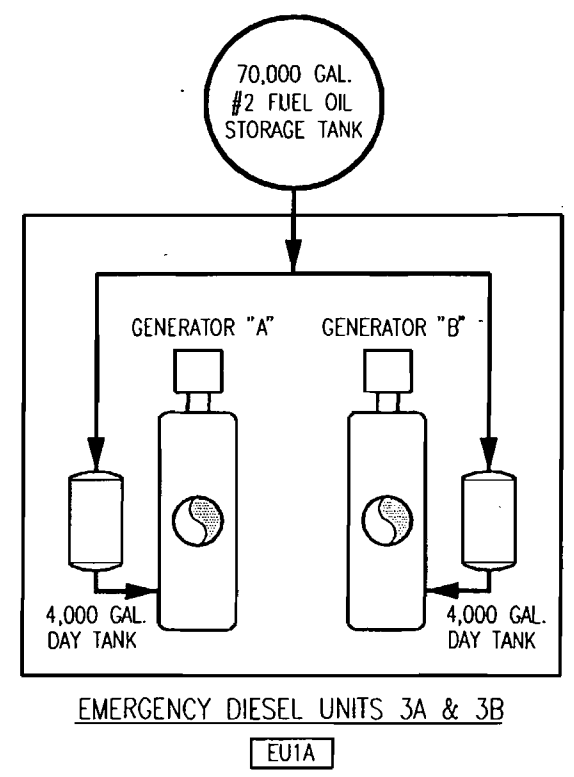
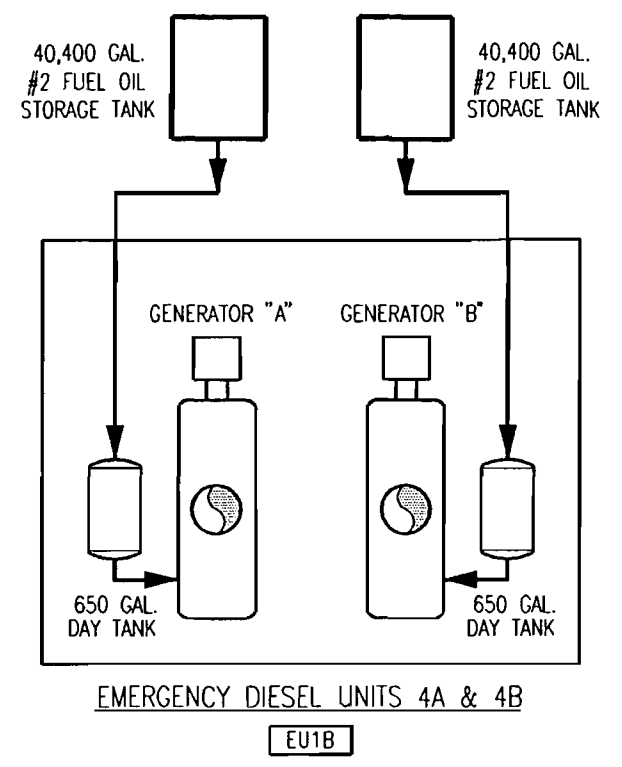


SYSTEM	YY	DISCIPLINE	M	PLANT/AREA	TURKEY POINT - NUCLEAR
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DRAWING SIZE	E(30" X 42")	PLANT AREA NAME	JPO0835	ISSUING NUMBER	JETS-M0020-YY
REV	DATE	REVISION DESCRIPTION	BY	CHK	APP
1					
SHEET					1 OF 1
					REV 0

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

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"



NOTES:

- ACRONYMS:
EU-EMISSION UNIT
FO-FUEL OIL
DG-DIESEL GENERATOR
- EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

EU *

EMISSION UNIT NUMBER

0	8/4/95	ISSUED FOR TITLE V PERMIT	PWB	PWB	CSP	CSP	ETS
REV	DATE	REVISION DESCRIPTION	BY	CH	COR	APR	ORG

	SYSTEM	DISCIPLINE	PLANT/UNIT	BAR CODE
	YY	M	TURKEY POINT PLANT-NUCLEAR	
	SCALE	CAD FILE NAME	TITLE	
	N/A	JP000627	FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 MISCELLANEOUS DIESEL ENGINES	
DRAWING SIZE	FPL ARCHIVE NAME	DRAWING NUMBER		
B(11"x17")	JP000627	JETS-M0012-YY		
SHEET			REV	
1 OF 1			0	