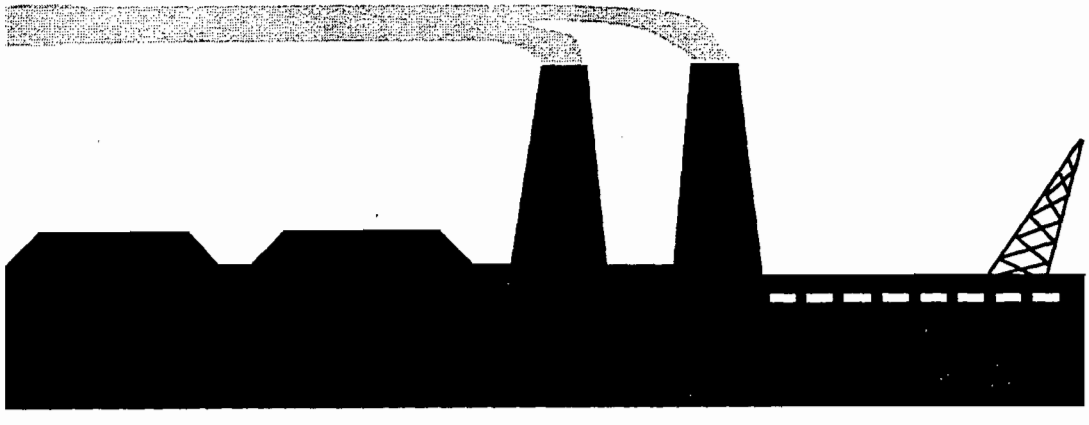
Title V Permit Application

Turkey Point Nuclear Plant



FPL

PTN-LIC-96-034

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

Re: Submittal of FPL Turkey Point Nuclear Plant Title V Application

Dear Mr. Fancy:

Enclosed, pursuant to DEP Rule 62-210.300(2), please find four (4) hard copies of the subject Title V application, and one set of diskettes containing the application in the ELSA format. Please note that pursuant to the instructions provided in the application, FPL is submitting two separate applications for the Turkey Point facility; one for equipment associated with the nuclear generating units (enclosed herein), and another, separate application for equipment associated with the fossil generating units.

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

Very truly yours,

V. A. Kaminskas
Services Manager
Turkey Point Plant
Florida Power and Light Co.

cc:

Dade County DERM (w/o att)
DEP Southeast District Office (w/o att)

Application
0250003-002-AV

6/13/1996

TABLE OF CONTENTS

TURKEY POINT NUCLEAR PLANT TITLE V APPLICATION

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

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

I. APPLICATION INFORMATION

This section of the Application for Air Permit form identifies the facility and provides general information on the scope and purpose of this application. This section also includes information on the owner or authorized representative of the facility (or the responsible official in the case of a Title V source) and the necessary statements for the applicant and professional engineer, where required, to sign and date for formal submittal of the Application for Air Permit to the Department. If the application form is submitted to the Department using ELSA, this section of the Application for Air Permit must also be submitted in hard-copy form.

Identification of Facility Addressed in This Application

Enter the name of the corporation, business, governmental entity, or individual that has ownership or control of the facility; the facility site name, if any; and a brief reference to the facility's physical location. If known, also enter the facility identification number.

1. Facility Owner/Company Name: Florida Power & Light Company
2. Site Name: Turkey Point Nuclear Plant
3. Facility Identification Number : Unknown
4. Facility Location Information: Facility Street Address: 10 miles east of Florida City on Palm Drive City: Florida City County: Dade Zip Code: 33035
5. Relocatable Facility? (Y/N): N 6. Existing Permitted Facility?(Y/N): Y

Application Processing Information (DEP Use)

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

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official:
   Name: Vito Kaminskas
   Title : Nuclear Services Manager

2. Owner or Responsible Official Mailing Address:

   Organization/Firm: FPL Environmental Services Department
   Street Address: P.O. Box 088801
   City: North Palm Beach State: FL Zip Code: 33408

3. Owner or Responsible Official Telephone Numbers:
   Telephone: 305 2466090 Fax: 305 2466783

4. Owner or Responsible Official Statement:

   I, the undersigned, am the owner or authorized representative of the non-Title V source addressed in this Application for Air Permit or the responsible official, as defined in Rule 62-210.200 F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statues of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.*

Vito A. Kaminskas — Signature

6/11/96 — Date

* Attach letter of authorization if not currently on file.

Scope of Application

This Application for Air Permit addresses the following emissions unit(s) at the facility (or Title V source). An Emissions Unit Information Section (a Section III of the form) must be included for each emissions unit listed.

Emissions Unit Id	Description of Emissions Unit	Permit Type
01	Main Plant Emergency Diesel Generators	
02	Auxiliary Emergency Diesel Generators	
03	Miscellaneous Plant Equipment	
04	Fugitive Emissions	

Purpose of Application and Category

Enter the Letter that applies and related information (except as otherwise indicated):

Category I: All Air Operation Permit Applications Subject to Processing Under Chapter 17-213, F.A.C.

This Application for Air Permit is submitted to obtain (A,B,C,D,E,F): **A**

[A] Initial air operation permit under Chapter 17-213, F.A.C., for an existing facility which is classified as a Title V source.

[B] Initial air operation permit under Chapter 17-213, F.A.C., for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number:

[C] Air operation permit renewal under Chapter 17-213, F.A.C., for a Title V source.

Operation permit to be renewed:

[D] Air operation permit revision for a Title V source to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number:

Operation permit to be revised:

[E] Air operation permit revision or administrative correction for a Title V source to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application for such emissions unit(s). Also check appropriate item under Category III.

Operation permit to be revised/corrected:

[F] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit to be revised:

Reason for Revision:

Category II: All Air Operation Permit Applications Subject to Processing Under Rule 17-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain (A,B,C):

[A] Initial air operation permit under Rule 17-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s):

[B] Renewal air operation permit under Rule 17-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed:

[C] Air operation permit revision for a synthetic non-Title V source. Give reason for revision; e.g., to address one or more newly constructed or modified emissions units addressed herein.

Operation permit to be revised:

Reason for revision:

Category III: All Air Construction Permit Applications for All Facilities and Emissions Units

This Application for Air Permit is submitted to obtain (A,B,C): C

[A] Air construction permit to construct or modify one or more emissions units within a facility (including any facility classified as a Title V source).

Current operation permit number(s), if any:

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

Current operation permit number(s):

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

Application Processing Fee

Check one:

[N] Applicable (Y/N) Attached - Amount: $

Construction/Modification Information

1. Description of Proposed Project or Alterations : NA
2. Projected or Actual Date of Commencement of Construction (DD-MON-YYYY):
3. Projected Dates of Completion of Construction (DD-MON-YYYY):

Professional Engineer Certification

1. Professional Engineer Name: Kennard F. Kosky Registration Number: 14966
2. Professional Engineer Mailing Address: Organization/Firm: KBN Engineering & Applied Sciences Street Address: 6241 NW 23rd Street City: Gainesville State: FL Zip Code: 326531500
3. Professional Engineer Telephone Numbers: Telephone: (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 a emission unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

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

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

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

Signature [signature] Date 6/5/96

(seal)

*Attach any exception to certification statement.

Application Contact Information

1. Name and Title of Application Contact:
   Name: Richard G. Piper
   Title: Environmental Specialist

2. Application Contact Mailing Address:

Organization/Firm: FPL Environmental Services Department
Street Address: P.O. Box 088801
City: North Palm Beach State: FL Zip Code: 33408

3. Application Contact Telephone Numbers:
Telephone: 5616257661 Fax: 5616257251

Application Comment

This application is being submitted to obtain a federally-enforceable construction and operation permit for the Turkey Point Nuclear plant. The Turkey Point nuclear facility consists of two nuclear generating units with a combined capacity of 1,332 megawatts. The nuclear generating units, which are regulated by the Nuclear Regulatory Commission (NRC) are not included in this application.

The facility also contains several ancillary pieces of diesel-driven equipment (such as diesel generators and air compressors) and fuel oil storage tanks. This ancillary equipment, when considered in aggregate, has the potential to emit in excess of 100 tpy of NOx. The nuclear plants are co-located with the two Turkey Point fossil generating plants (which are major sources under Title 5). However, this application is being submitted separately from the fossil units' application, pursuant to the application instructions (page 6 of DEP Form 62-210.900(1) paragraph five): "For permits issued under Chapter 62-213, F.A.C., to sources that include emissions units subject to regulation by the Nuclear Regulatory Commission, the applicant may elect to submit multiple applications for a single Title V source and to have corresponding multiple permits issued by the Department".

The facility also contains an adjacent cooling canal system, with associated support equipment and office (Land Utilization department). Emissions from the Land Utilization equipment are primarily associated with heavy diesel equipment, such as trucks, backhoes, airboats, and the like, and are exempt from consideration in Title V permitting due to being mobile sources. Regulated emissions associated with the Land Utilization Department include fugitive dust (considered in Emission Unit section 4) and miscellaneous small diesel and gasoline-driven equipment, such a pumps and air compressors. These emissions are considered in Emission Unit 3.

This application is structured as follows: The "main plant emergency diesel generators" which supply backup power to the nuclear power plant auxiliary equipment, are addressed in Emission Unit 1 section of the application. Other diesel generators which supply backup power to certain other equipment at the facility are addressed in Emission Unit section 2 of the application. Emission Unit 3 contains information regarding miscellaneous diesel-driven small equipment at the facility. The facility's safety-related equipment, paint spray booth, sandblast enclosure, tanks, and miscellaneous fugitive emissions are considered in the Unregulated Emission Units section (Emission Unit section 4 of the application).

NOx is the pollutant that is emitted in the largest quantity from the internal combustion (diesel-driven) equipment. Facility-wide potential NOx emissions, reflective of the operating limits which FPL is proposing, are as follows:

Emission Unit 1 (4 Main plant emergency diesel generators) (1400 hours per year limit combined total)	78.44	tons per year
Emission Unit 2 (Other emergency diesel generators) (400 hours per year limit each)	5.76	tons per year
Emission Unit 3 (Miscellaneous plant equipment) (annual fuel useage limit of 160,520 gallons)	48.14	tons per year
Emission Unit 4 (Exempt Diesel Equipment)	2.16	tons per year
Total:	134.5	tons per year

`II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Information for Facility-Id : *1*

Facility Location and Type

1. Facility UTM Coordinates:
   Zone: 17 East: 600937.13791 North: 2765365.0363

2. Facility Latitude/Longitude:
   Latitude (DD/MM/SS): 25 - 26 - 9 Longitude (DD/MM/SS): 80 - 19 - 52

3. Governmental Facility Code: None (non-governmental facility)
4. Facility Status Code: Active
5. Facility Major Group SIC Code: 49
6. Facility SIC(s): 4911

7. Facility Comment: (limit to 500 characters)

Facility Contact

1. Name and Title of Facility Contact:
   Name : Rob Graessel
   Title : Environmental Specialist

2. Facility Contact Mailing Address:
   Organization/Firm: FPL Turkey Point Nuclear Plant
   Street Address: P.O. Box 4332
   City: Princeton State: FL Zip Code: 33432 -

3. Facility Contact Telephone Numbers:
   Telephone: 305 2466453 Fax: 305 2466783

Facility Regulatory Classifications

1. Small Business Stationary Source? (Yes/No/Unknown)(Y/N/U) : N
2. Title V Source? (Yes/No) (Y/N) : Y
3. Synthetic Non-Title V Source? (Yes/No) (Y/N) : N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)? (Yes/No) (Y/N) : Y
5. Synthetic Minor Source of Pollutants Other than HAPs? (Yes/No) (Y/N) : N
6. Major Source of HAPs? (Yes/No/Possible) (Y/N/P) : N
7. Synthetic Minor Source of HAPs? (Yes/No) (Y/N) : N
8. One or More Emissions Units Subject to NSPS? (Yes/No) (Y/N) : N
9. One or More Emissions Units Subject to NESHAP? (Yes/No) (Y/N) : Y
10. Title V Source by EPA Designation? (Yes/No) (Y/N) : N
11. Facility Regulatory Classifications Comment (limit to 200 characters): This facility is subject to the asbestos NESHAP, 40 CFR 61 Subpart M.

B. FACILITY REGULATIONS

Rule Applicability Discussion (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

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

Information for Facility-Id : *1*

40 CFR 61.05 40 CFR 61.12(b) 40 CFR 61.145 40 CFR 61.148 40 CFR 61.150 40 CFR 61.19 Dade County DERM Chp 24-17 (not part of SIP) Dade County Derm Chp 24-19(6) (not part of SIP) Dade County Derm Chp 24-20 (not part of SIP) Dade County Derm Chp 24-24 (not part of SIP) Dade County Derm Chp 24-25 (not part of SIP) Dade County Derm Chp 24-25.2 (not part of SIP) Dade County Derm Chp 24-25.4 (not part of SIP) Dade County Derm Chp 24-26(1)(e) (not part of SIP) Dade County Derm Chp 24-27 (not part of SIP) Dade County Derm Chp 24-35.1(8) (not part of SIP) Dade County Derm Chp 24-36 (not part of SIP) Dade County Derm Chp 24-37(1),(3) (not part of SIP) Dade County Derm Chp 24-38 (not part of SIP) Dade County Derm Chp 24-39 (not part of SIP) Dade County Derm Chp 24-54(3) (adopts Chp 403 and subs. DEP rules by ref.)	F.A.C. 62-204.800(8)(b)8. (state only) F.A.C. 62-204.800(8)(d) (state only) F.A.C. 62-210.300(2) (except (b)) F.A.C. 62-210.300(3)(a)10. F.A.C. 62-210.300(3)(a)11. F.A.C. 62-210.300(3)(a)12. F.A.C. 62-210.300(3)(a)15. F.A.C. 62-210.300(3)(a)16. F.A.C. 62-210.300(3)(a)17. F.A.C. 62-210.300(3)(a)20. F.A.C. 62-210.300(3)(a)21. F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.300(3)(a)23. F.A.C. 62-210.300(3)(a)24. F.A.C. 62-210.300(3)(a)4. F.A.C. 62-210.300(3)(a)5. F.A.C. 62-210.300(3)(a)7. F.A.C. 62-210.300(3)(a)8. F.A.C. 62-210.300(3)(a)9. F.A.C. 62-210.300(3)(b) F.A.C. 62-210.370(3)	F.A.C. 62-210.900(5) F.A.C. 62-213.205(1)(a) F.A.C. 62-213.205(1)(b) F.A.C. 62-213.205(1)(c) F.A.C. 62-213.205(1)(e) F.A.C. 62-213.205(1)(f) F.A.C. 62-213.205(1)(g) F.A.C. 62-213.205(1)(i) F.A.C. 62-213.205(1)(j) F.A.C. 62-213.205(4) F.A.C. 62-213.205(5) F.A.C. 62-213.400 F.A.C. 62-213.410 F.A.C. 62-213.420(1)(b)2. F.A.C. 62-213.420(1)(b)3. F.A.C. 62-213.430(3) F.A.C. 62-213.460 F.A.C. 62-256.300(1) F.A.C. 62-256.300(2) F.A.C. 62-256.300(3) F.A.C. 62-256.300(4)	F.A.C. 62-256.300(7) F.A.C. 62-256.300(8) F.A.C. 62-256.300(9) F.A.C. 62-256.500 F.A.C. 62-256.600 F.A.C. 62-256.700 F.A.C. 62-257.300 F.A.C. 62-257.301 F.A.C. 62-257.350 F.A.C. 62-257.400 F.A.C. 62-257.401 F.A.C. 62-257.900 F.A.C. 62-296.320(2) (state only) F.A.C. 62-296.320(3)(b) (state only) F.A.C. 62-296.320(4)(b) F.A.C. 62-296.320(4)(c) F.A.C. 62-297.310(7)(a)10. F.A.C. 62-4.030 F.A.C. 62-4.040(1)(a) F.A.C. 62-4.040(1)(b) F.A.C. 62-4.100 F.A.C. 62-4.130

C. FACILITY POLLUTANTS

Facility Pollutant Information :

1. Pollutant Emitted:	2. Pollutant Classification
NOX	A
CO	A

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications For Facility :*1*

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

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**
8. List of Equipment/Activities Regulated under Title VI: PTNFS-8.txt **(Enter the Attached Document ID, Equipment/Activities Onsite but not Required to be Individually Listed, NA - Not Applicable)**
9. Alternative Methods of Operation: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**
10. Alternative Modes of Operation (Emissions Trading): Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**
11. Identification of Additional Applicable Requirements: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**
12. Compliance Assurance Monitoring Plan: Not Applicable **(Enter the Attached Document ID, NA - Not Applicable)**

13. Risk Management Plan Verification: PLANNED

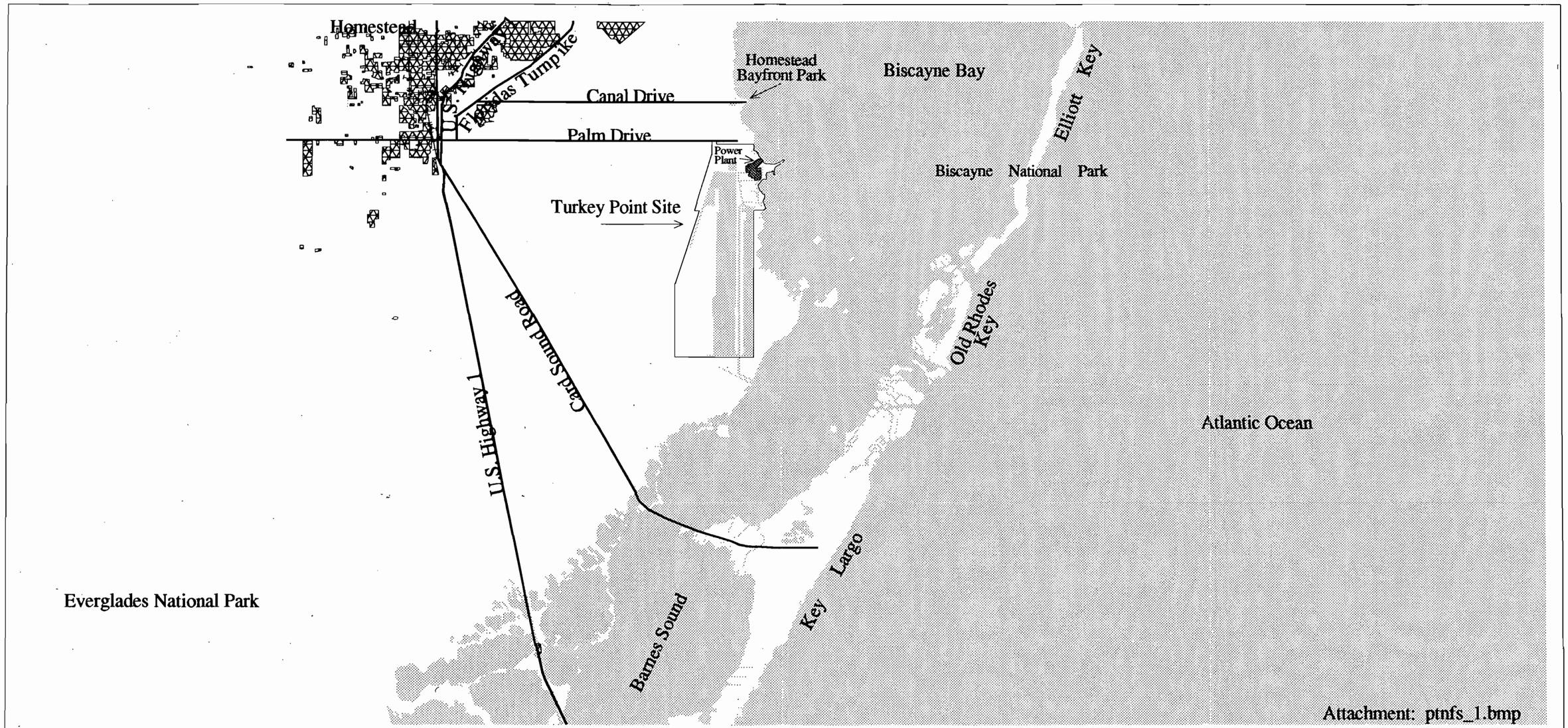
Plan Submitted to Implementing Agency - Verification Attached(Attached Document ID)

Plan to be Submitted to Implementing Agency by Required Date

Not Applicable (NA)

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

15. Compliance Statement (Hard-copy Required): PTNFS-14.txt
(Enter the Attached Document ID, NA - Not Applicable)



Attachment: ptnfs_1.bmp

Turkey Point Area Map
Dade County

FPL Environmental Affairs

Kilometers 0 10

Miles 0 10

N W E S

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

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

/export/home/ron/ptp-site.map (6-95)

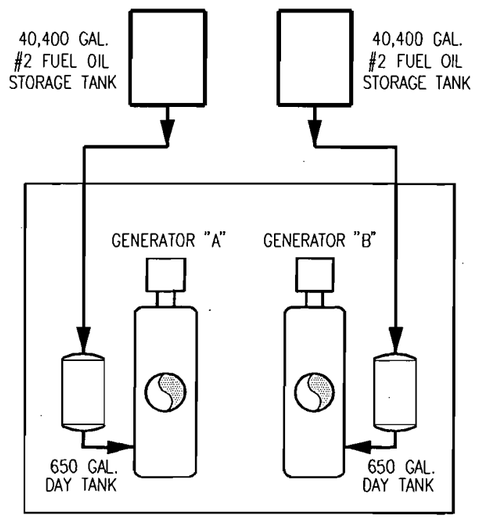
ATTACHMENT: PTNFS_3.bmp

TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

SCALE 3/8" = 1'-0"

SCALE 1/4" = 1'-0"



EMERGENCY DIESEL UNITS 4A & 4B

EU1B

SECURITY SYSTEM DIESEL GENERATOR

EU2A

SEWAGE PLANT DIESEL GENERATOR

EU2B

STANDBY STEAM GENERATOR
FEED PUMP

EU3A

I.A. DIESEL AIR COMPRESSORS (2)

EU3B

HYDROLAZERS (3)

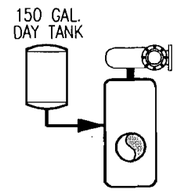
EU3C

SERVICE AIR COMPRESSOR (6)

EU3E

RENTAL AIR COMPRESSORS (21)
(TRAILER MOUNTED)

EU3F

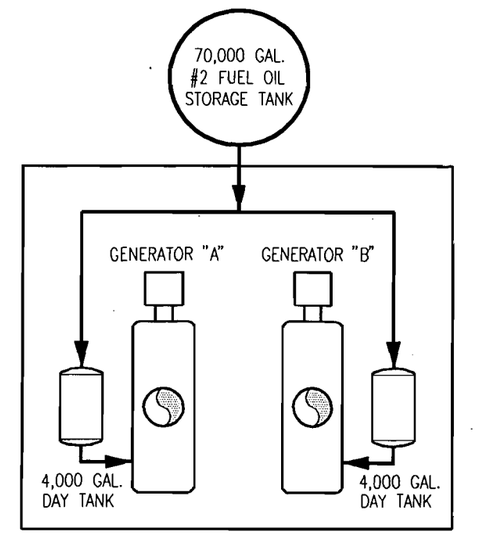


SERVICE WATER DIESEL PUMP

EU3D

DIESEL FIRE PUMP

EU4A



EMERGENCY DIESEL UNITS 3A & 3B

EU1A

10 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

EU2C

60 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

EU2D

NOTES:

1. ACRONYMS:
   EU-EMISSION UNIT
   FO-FUEL OIL
   DG-DIESEL GENERATOR

2. EMISSION UNITS ARE IDENTIFIED WITH A RECTANGULAR BOX:

EU *

EMISSION UNIT NUMBER

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

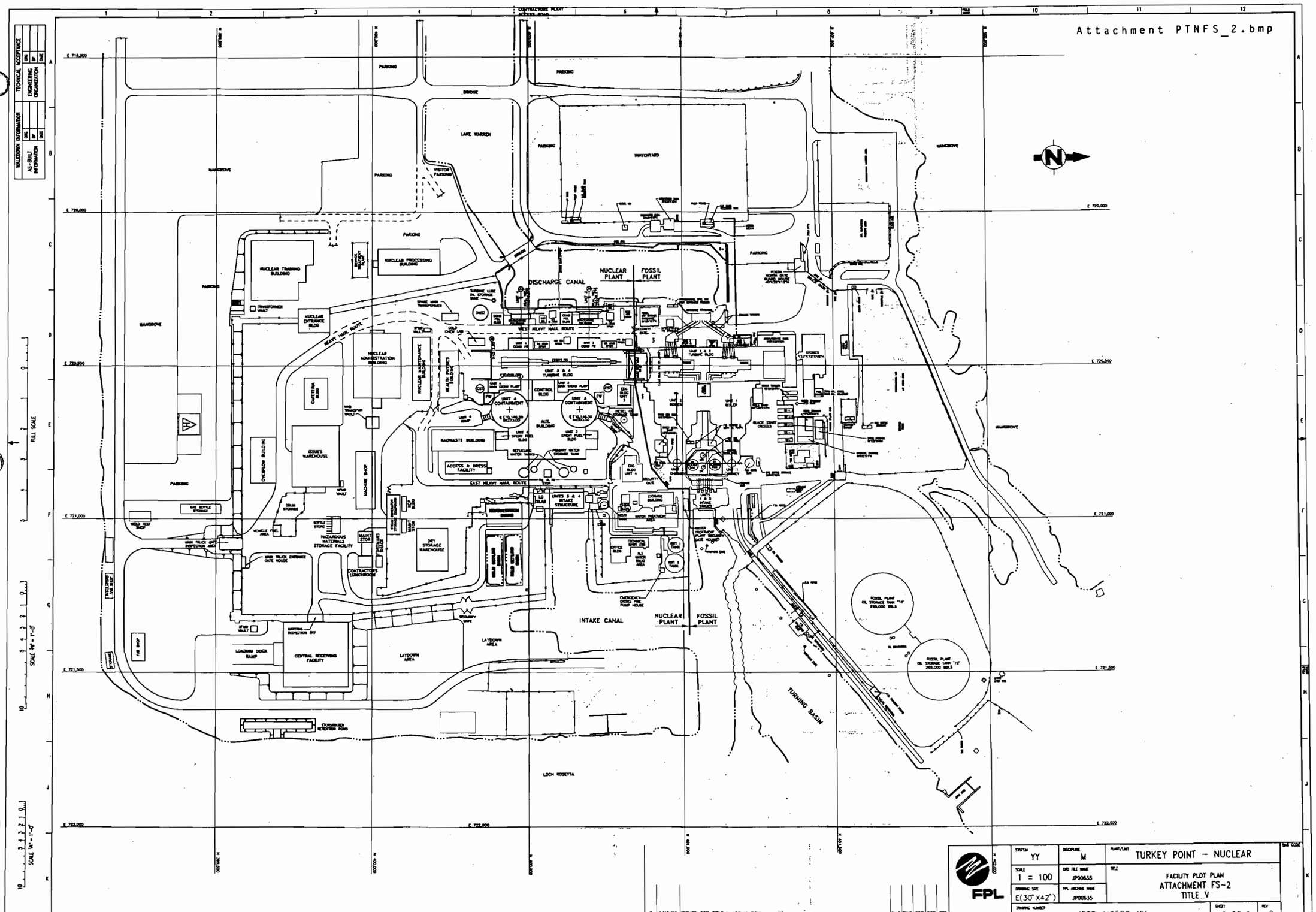
FPL

SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: TURKEY POINT PLANT-NUCLEAR	BAR CODE
SCALE: N/A	CAD FILE NAME: JP000627	TITLE: FACILITY SOURCE FLOW DIAGRAM ATTACHMENT NO. FS-3 MISCELLANEOUS DIESEL ENGINES	
DRAWING SIZE: B(11"X17")	FPL ARCHIVE NAME: JP000627		
DRAWING NUMBER: JETS-M0012-YY		SHEET: 1 OF 1	REV: 0

GSYM/FPGBDR-B 5/93

BEST AVAILABLE COPY

Attachment PTNFS_2.bmp



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

0	1/19/96	ISSUED FOR TITLE V APPLICATION	DWB PWS CSP CSP ETS

FPL

SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: TURKEY POINT – NUCLEAR	
SCALE: 1 = 100	CAD FILE NAME: JP00535	TITLE: FACILITY PLOT PLAN ATTACHMENT FS-2 TITLE V	
DRAWING SIZE: E(30"X42")	PPL ARCHIVE NAME: JP00535		
DRAWING NUMBER:		ETS-M0020-YY	SHEET: REV: 0

Attachment PTNFS_4.txt
Precautions to Prevent Emissions of Unconfined Particulate Matter

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

- fugitive dust from unpaved roads
- sandblasting abrasive material from plant maintenance activities
- fugitive particulates from the use of bagged chemical products

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.txt
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 instrucitons.

Attachment PTNFS_8.txt
Equipment / Activities Regulated Under Title VI

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

Name of Unit	Section	Pounds CFC
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.txt
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.txt
Turkey Point Nuclear Plant
Compliance Statement

I, the undersigned, am the responsible official as defined in Chapter 62-213, F.A.C., of the Title V source for which this report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this report are true, accurate, and complete.

Signature, Responsible Official

6/11/96
Date

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

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

III. EMISSIONS UNIT INFORMATION

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

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

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

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

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): **1**

[1] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[2] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point(stack or vent) but may also produce fugitive emissions.

[3] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Four 2500 kW emergency diesel generators
2. Emissions Unit Identification Number: Unknown (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): The generator nameplate rating provided in section C reflects one (1) emergency generator. The emissions from the four emergency diesel generating units for Units 3 and 4 are identical. The emergency diesel generators are typically test-operated approximately once-per-month, and occasionally as frequently as once-per-week, in accordance with Nuclear Regulatory Commission (NRC) regulations, in order to ensure reliability if needed in an emergency.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): None
2. Control Device or Method Code:

B. Control Equipment # :

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

C. Control Equipment # :

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

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY): 11/01/72
2. Long-term Reserve Shutdown Date (DD-MON-YYYY):
3. Package Unit: Manufacturer: Electro-Motive, Division of GM Model Number: 20-645-E4
4. Generator Nameplate Rating: 2.5 MW
5. Incinerator Information: Dwell Temperature: °F Dwell Time: seconds Incinerator Afterburner Temperature: °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 24.89 mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: **Units:**
4. Maximum Production Rate: **Units:**
5. Operating Capacity Comment (limit to 200 characters): Maximum heat input rate given reflects one emergency diesel generator. The requested operating hours is a combined value for all 4 generators together. Startup date for the 2 Unit 4 generators = 1991.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

hours/day	days/week
weeks/yr	1400 hours/yr

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

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

Emissions Unit ID 1

F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.700(1) F.A.C. 62-210.700(4)	F.A.C. 62-210.700(6) F.A.C. 62-296.320(4)(b) F.A.C. 62-296.570(4)(a)3.	F.A.C. 62-296.570(4)(b)7. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(2)(b)	F.A.C. 62-297.310(4)(a)2. F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)3.b. F.A.C. 62-297.310(7)(a)4.a. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: Emergency Diesel Generator unit 3A & 3B
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Emergency generator units 3A and 3B
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 20 ft
7. Exit Diameter: 1.83 ft
8. Exit Temperature: 735 °F
9. Actual Volumetric Flow Rate: 23000 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567252.39 North: 2813481.61
14. Emission Point Comment (limit to 200 characters): Exit diameter, actual volumetric flow rate and exit temperature were provided by the manufacturer, MKW Power Systems. Stack height is approximate.

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: Emergency Diesel Generator units 4A and 4B
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Emergency generator units 4A and 4B
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 20 ft
7. Exit Diameter: 1.83 ft
8. Exit Temperature: 635 °F
9. Actual Volumetric Flow Rate: 21350 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567336.18 North: 2813482.03
14. Emission Point Comment (limit to 200 characters): Exit diameter, exit temperature and volumetric flow rate were provided by the manufacturer, MKW Power Systems. Stack height is approximate.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel burned in the four main plant emergency diesel generator units
2. Source Classification Code **(SCC):** 2-01-001-02
3. SCC Units: thousand gallons burned
4. Maximum Hourly Rate: 0.202
5. Maximum Annual Rate: 282.8
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Value in field 4 = one diesel generator (of the 4 that are included in this EU). Also, field 5 represents 1400 hours of operation, which is proposed as the combined max. for the 4 diesel generators.

G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)

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

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

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

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

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides
2. Total Percent Efficiency of Control: 0 %
3. Potential Emissions: 448.2 lbs/hr 78.4 tons/yr
4. Synthetically Limited? (Yes/No): Y
5. Range of Estimated Fugitive/Other Emissions: (1, 2, 3) : 0 0 to 0tons/yr
6. Emission Factor: 4.5 **Units** lb/mmBtu Reference: Manufacturers Data
7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 5 [ ] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 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 350 hours/year = 156,800 lb / 2,000 lb/ton = 78.4 TPY
9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters): FPL is requesting a 1,400 hour-per-year combined limit on the 4 emergency diesel generators (~350 hr/year each).

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

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Emissions limit required by rule
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.75 Units : lb/mmBtu
4. Equivalent Allowable Emissions: 448 lbs/hr 78.4 tons/yr
5. Method of Compliance: Track hours of operation on emergency diesel generators
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **194** 4.75 lb/mmBtu is the current reg. limit [Rule 62-296.570(4)(b)7] on NOx emissions [30-day rolling avg - Rule 62-296.570(4)(a)4.]. Equivalent allowable emissions are given for liquid fuel firing.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions evaluations are not required to be performed annually if the emission unit operates less than 400 hours per year [DEP Rule 62-297.340(1)(c)2.].

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions during startup, shutdown and malfunction are allowed, if the duration of excess emissions is minimized & total excess emission pd is < 2 hrs / 24 hrs. [Rule 62-210.700(1)].

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

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

Continuous Monitoring System

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

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

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

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM	C,E
SO2	C,E
NO2	C,E

4. Baseline Emissions:

PM	2.46	lbs/hr	0.42	tons/yr
SO2	6.5	lbs/hr	1.11	tons/yr
NO2	19.05	tons/yr		

5. PSD Comment (limit to 200 characters):
Baseline emissions from Unit 3 are presented above [@ 170 hpy]. Unit 4 consumes increment as a minor modification to a major source.

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

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

Supplemental Requirements for All Applications

1. Process Flow Diagram : PTNU1_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PTNU1_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PTNU1_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PTNU1_10.doc
Attached Document ID / Not Applicable

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

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

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

14. Acid Rain Permit Application

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

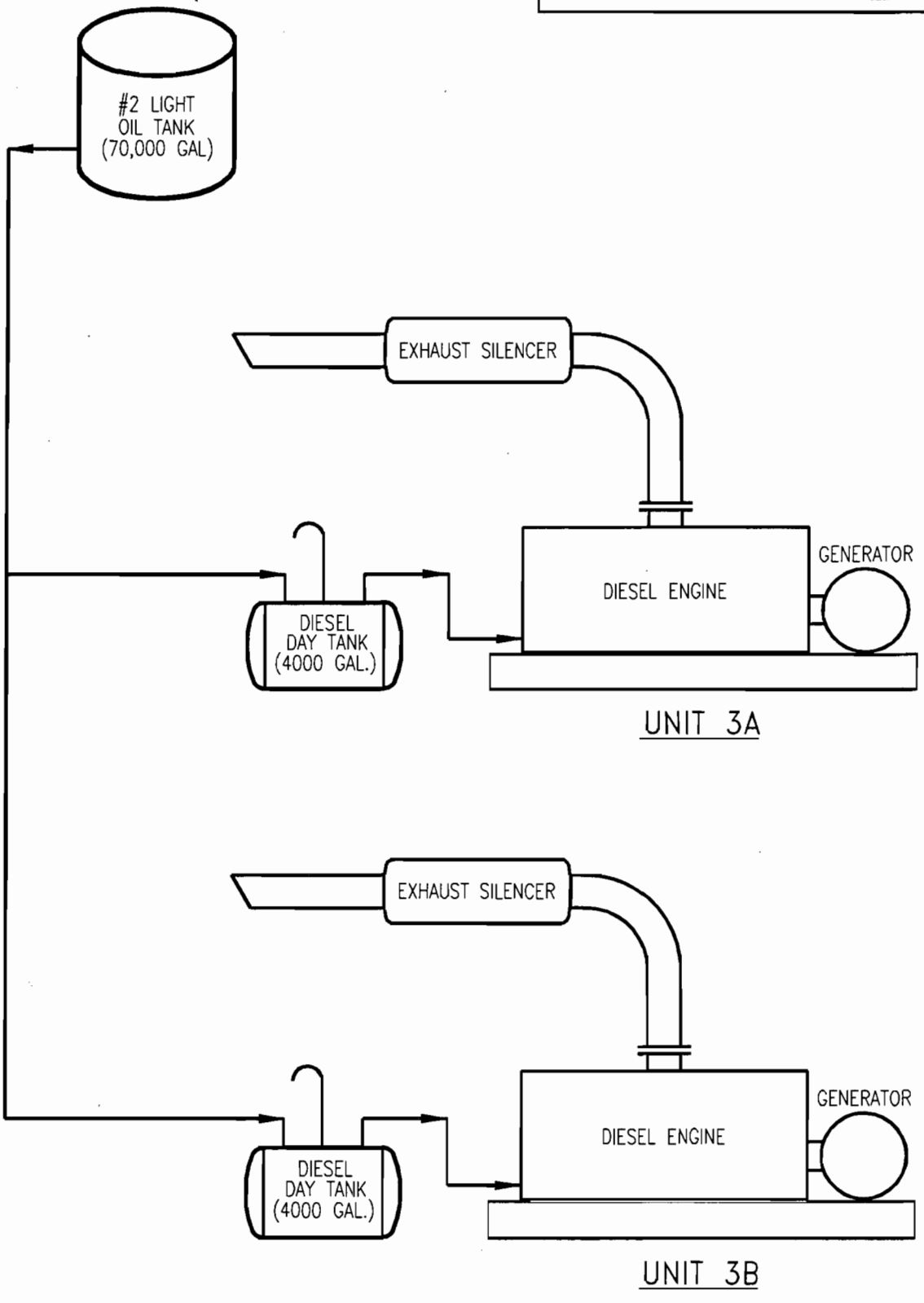
Repowering Extension Plan (Form No. 17-210.900(1)(b))
Attached Document ID: Not Applicable

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

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

Not Applicable

ATTACHMENT: PTNU1A_1.bmp



TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

BAR CODE

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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

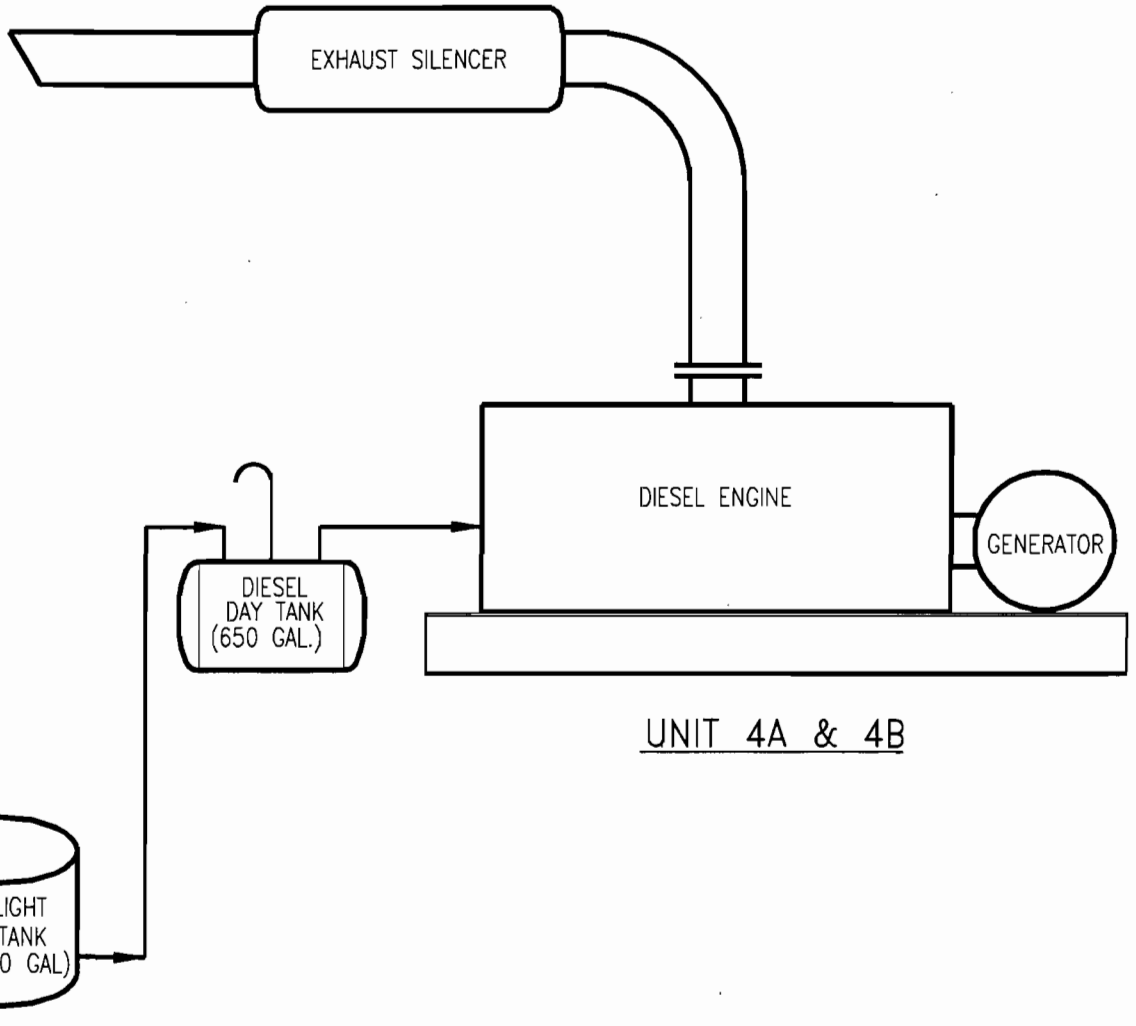
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU1B_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



UNIT 4A & 4B

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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

FPGSYM/FPGBDR-A 9/90

Attachment PTNU1_2.txt

Fuel Analysis

Light Distillate oil (typical)*

Parameter	Typical value	Max value
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.txt

Procedures for Startup / Shutdown

The emergency diesel generator is the main backup emergency electrical power supply component 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 the emergency diesel generator begins with actuating a switch which operates an air start motor on the diesel engine which "turns over" the diesel engine until ignition of the diesel fuel commences.

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

Best Operating Practices include proper maintenance of the diesel engines by trained personnel on the generating unit 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.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 combined limit of 1,400 hours per year operation of the diesel generators is requested in this application. This would allow any of the four main plant emergency diesel generators to operate for a variable number of hours during any calendar year, as long as the total for all four does not exceed 1,400 hours / year.

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

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

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

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

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

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): **1**

[1] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[2] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point(stack or vent) but may also produce fugitive emissions.

[3] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Auxiliary Emergency Diesel Generators
2. Emissions Unit Identification Number: Unknown (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This emission unit considers several pieces of equipment; the security system diesel generator, the sewage plant diesel generator, and two meteorological tower diesel generators. The initial startup dates, manufacturer and model numbers vary with each piece of equipment.

Emissions Unit Control Equipment

A. Control Equipment # :

1. Description (limit to 200 characters): None
2. Control Device or Method Code:

B. Control Equipment # :

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

C. Control Equipment # :

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

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

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

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 4.08 mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: **Units:**
4. Maximum Production Rate: **Units:**
5. Operating Capacity Comment (limit to 200 characters): Information provided is for the security system diesel generator, which is the largest.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 400 hours/yr

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

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

Emissions Unit ID 2

F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.700(1) F.A.C. 62-210.700(4)	F.A.C. 62-210.700(6) F.A.C. 62-296.320(4)(b) F.A.C. 62-296.570(4)(a)3.	F.A.C. 62-296.570(4)(b)7. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(2)(b)	F.A.C. 62-297.310(4)(a)2. F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)3.b. F.A.C. 62-297.310(7)(a)4.a. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: PTN security system emergency diesel generator
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Sewage plant diesel gen., security system diesel gen., 2 meteorological tower diesel gen.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 13 ft
7. Exit Diameter: 0.67 ft
8. Exit Temperature: 1006 °F
9. Actual Volumetric Flow Rate: 3686 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567282.32 North: 2813081.87
14. Emission Point Comment (limit to 200 characters):

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: PTN sewage emergency diesel generator
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Sewage plant diesel gen., security system diesel gen., 2 meteorological tower diesel gen.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : H
6. Stack Height: 7.25 ft
7. Exit Diameter: 0.33 ft
8. Exit Temperature: 847 °F
9. Actual Volumetric Flow Rate: 1114 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567086.79 North: 2813080.89
14. Emission Point Comment (limit to 200 characters):

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: PTN meteorological tower diesel generators
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Sewage plant diesel gen., security system diesel gen., 2 meteorological tower diesel gen.
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : H
6. Stack Height: 7.25 ft
7. Exit Diameter: 0.33 ft
8. Exit Temperature: 847 °F
9. Actual Volumetric Flow Rate: 1114 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: East: North:
14. Emission Point Comment (limit to 200 characters): Stack height, exit diameter, temperature and flow rate are estimates.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the security system emergency diesel generators
2. Source Classification Code **(SCC):** 2-01-001-02
3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.03
5. Maximum Annual Rate: 12
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the sewage plant 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: 6
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters):

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the meteorological tower emergency diesel generators
2. Source Classification Code **(SCC):** 2-01-001-02
3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.004
5. Maximum Annual Rate: 1.6
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent 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.

G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)

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

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

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

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

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides

2. Total Percent Efficiency of Control: %

3. Potential Emissions: 28.79 lbs/hr 5.76 tons/yr

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

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

6. Emission Factor: 4.41 **Units** lb/mmBtu
Reference: AP42

7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 3
[ ] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):
4.41 lb/mmBtu x 15 gph x 0.136 mmBtu/gal = 9.0 lb/hour
4.41 lb/mmBtu x 1 gph x 0.136 mmBtu/gal = 0.6 lb/hour
4.41 lb/mmBtu x 2 gph x 0.136 mmBtu/gal = 1.2 lb/hour
4.41 lb/mmBtu x 30 gph x 0.136 mmBtu/gal = 17.99 lb/hour
9 + 0.6 + 1.2 + 17.99 = 28.79 lb/hour
28.79 lb/hour x 400 hours/year = 11,516 lb / 2,000 lb/ton = 5.76 TPY

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):
FPL is requesting a 400 hour-per-year limit on each of the diesel generators in this emission unit section, in lieu of annual emission testing, per DEP Rule 62-297.340(1)(c)2..

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

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.75 Units : lb/mmBtu
4. Equivalent Allowable Emissions: lbs/hr tons/yr
5. Method of Compliance: Track hours of operation on diesel generators
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** 76 4.75 lb/mmBtu is the regulatory limit imposed by DEP Rule 62-296.570(4)(b)7.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions evaluations are not required to be performed annually if the emission unit operates less than 400 hours per year [DEP Rule 62-297.340(1)(c)2.].

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions during startup, shutdown and malfunction are allowed, if the duration of excess emissions is minimized & total excess emission pd is < 2 hrs / 24 hrs. [Rule 62-210.700(1)].

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

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

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s):
3. CMS Requirement Code(R/O): Rule / Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:
5. Installation Date (DD-MON-YYYY):
6. Performance Specification Test Date (DD-MON-YYYY):
7. Continuous Monitor Comment (limit to 200 characters): Continous monitors are not required for the auxiliary emergency diesel generators.

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

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

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM	U
SO2	U
NO2	U

4. Baseline Emissions:

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

5. PSD Comment (limit to 200 characters):

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

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

Supplemental Requirements for All Applications

1. Process Flow Diagram : PTNU2_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PTNU2_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicaable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PTNU2_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PTNU2_10
Attached Document ID / Not Applicable

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

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

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

14. Acid Rain Permit Application

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

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

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

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

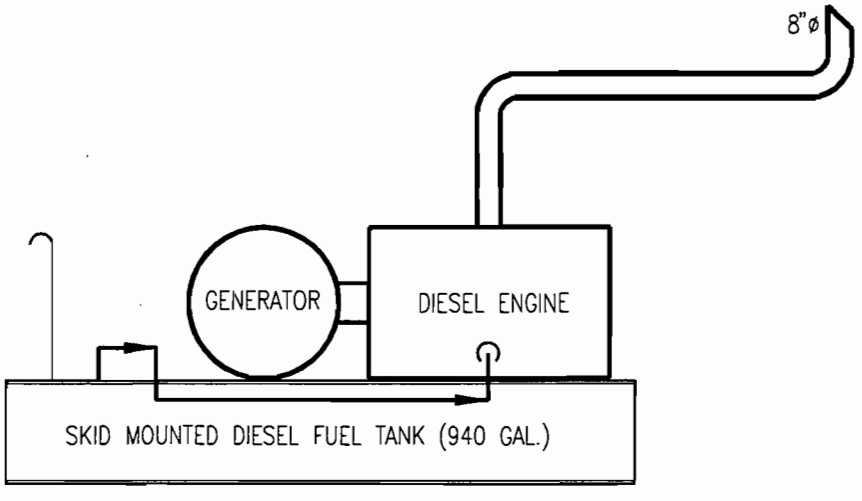
Not Applicable

ATTACHMENT: PTNU2A_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



SECURITY SYSTEM DIESEL GENERATOR

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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	SHEET	REV
JETS-M0015-YY	1 OF 1	0

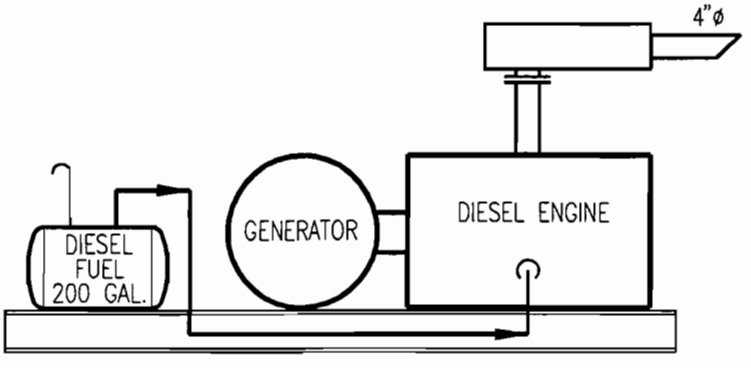
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU2B_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



SEWAGE PLANT DIESEL GENERATOR

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	TURKEY POINT NUCLEAR
SCALE: N/A	CAD FILE NAME: JP000633	TITLE: EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU2B
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: JP000633	

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

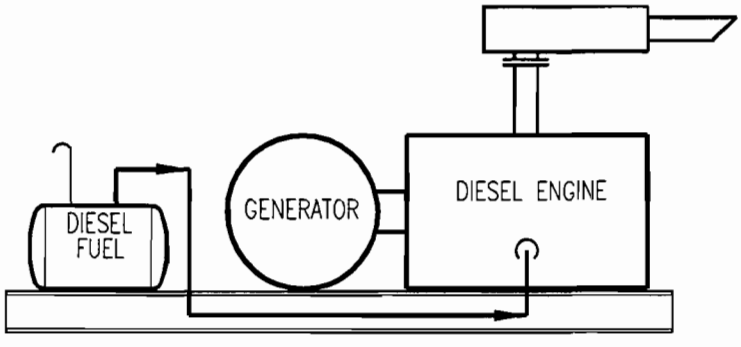
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU2C_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



10 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

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

FPL

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

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

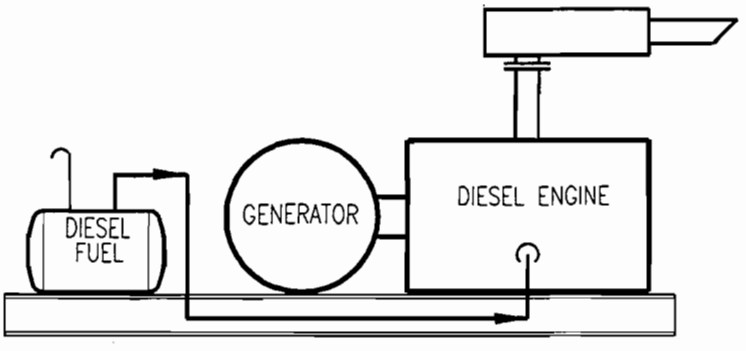
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU2D_1.bmp

TECHNICAL ACCEPTANCE
ENGINEERING ORGANIZATION | ORG | BY | DATE

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

BAR CODE



60 METER METEOROLOGICAL TOWER
DIESEL GENERATOR

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

FPL

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

FPGSYM/FPGBDR-A 9/90

Attachment PTNU2_2.txt

Fuel Analysis

Light Distillate oil (typical)*

Parameter	Typical value	Max value
API gravity @ 60 F	41.2 [1]	51 [1]
Relative density	285 lb / bbl [2]	not applicable
Heat content	19,130 Btu / lb	not applicable
% sulfur	0.2 [3]	0.3 [4]
% nitrogen	9 mg / kg	not applicable
% ash	negligible	0.001 [1]

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

1 Data taken from the FPL fuel purchasing specification

2 Data from laboratory analysis

3 Data from current air permit - max hourly concentration

4 Data from current air permit - max annual concentration

Attachment PTNU2_6.txt

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_10.txt

Alternative Methods of Operation

The auxiliary diesel generators are fired with light distillate oil fuel. Operating hours on the diesel generators will be limited ,each typically operating 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

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

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT
(Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

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

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

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): **1**

[1] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[2] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point(stack or vent) but may also produce fugitive emissions.

[3] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Miscellaneous diesel equipment
2. Emissions Unit Identification Number: 003 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This EU includes the larger general purpose diesel engines on the plant site, including the S.S.G.F. diesel , diesel hydrolazers, and various air compressors & pumps. FPL proposes to accept a 160,520 gpy limit on diesel fuel usage for the eqt. in this emission unit, [equivalent to a 400-hour-per-year limit on each pc of equipment]. Also, FPL proposes to use the combined annual fuel usage to determine whether visible emission evaluations are triggered for the equipment in this emission unit.

Emissions Unit Control Equipment

A. Control Equipment # :

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

B. Control Equipment # :

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

C. Control Equipment # :

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

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

1. Initial Startup Date (DD-MON-YYYY):

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

3. Package Unit:
   Manufacturer: Caterpillar Model Number: Unknown

4. Generator Nameplate Rating: 0 MW

5. Incinerator Information:
   Dwell Temperature: 0 °F
   Dwell Time: 0 seconds
   Incinerator Afterburner Temperature: 0 °F

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: 5.848 mmBtu/hr

2. Maximum Incineration Rate: 0 lbs/hr
   0 tons/day

3. Maximum Process or Throughput Rate: 0 **Units:**0

4. Maximum Production Rate: 0 **Units:** 0

5. Operating Capacity Comment (limit to 200 characters):
   Max heat input rate given above is for the Standby Steam Generator Feed Pump (SSGFP) diesel which is the largest of the diesel equipment in this emission unit.

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:
hours/day days/week
weeks/yr 400 hours/yr

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

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

Emissions Unit ID 3

F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.700(1) F.A.C. 62-210.700(4)	F.A.C. 62-210.700(6) F.A.C. 62-296.320(4)(b) F.A.C. 62-296.570(4)(a)3.	F.A.C. 62-296.570(4)(b)7. F.A.C. 62-296.570(4)(c) F.A.C. 62-297.310(2)(b)	F.A.C. 62-297.310(4)(a)2. F.A.C. 62-297.310(5) F.A.C. 62-297.310(7)(a)3.b. F.A.C. 62-297.310(7)(a)4.a. F.A.C. 62-297.310(7)(a)9. F.A.C. 62-297.310(8)

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

Emission Point Description and Type
Information for Facility-ID *1* **Emission Unit # :***3*

1. Identification of Point on Plot Plan or Flow Diagram: PTN hydrolazer diesel engine
2. Emission Point Type Code (1,2,3,4) : 1
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Service water diesel pump, S.S.G.F.P., air compressors, hydrolazers
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 8 ft
7. Exit Diameter: 0.25 ft
8. Exit Temperature: 850 °F
9. Actual Volumetric Flow Rate: 904 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: East: North:
14. Emission Point Comment (limit to 200 characters): Data given above is for one hydrolazer and there are three hydrolazers at this site. No UTMs are given since this is movable equipment.

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: PTN instrument air compressor diesel engine
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Service water diesel pump, S.S.G.F.P., air compressors, hydrolazers
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : H
6. Stack Height: 12 ft
7. Exit Diameter: 0.33 ft
8. Exit Temperature: °F
9. Actual Volumetric Flow Rate: acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567196.67 North: 2813450.57
14. Emission Point Comment (limit to 200 characters): Data given above is for unit 3 instrument air compressor, there are two instrument air compressors on this site.

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

Emission Point Description and Type

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

1. Identification of Point on Plot Plan or Flow Diagram: Standby Steam Generator Feedpump Diesel engine
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Service water diesel pump, S.S.G.F.P., air compressors, hydrolazers
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: ft
7. Exit Diameter: ft
8. Exit Temperature: 864 °F
9. Actual Volumetric Flow Rate: 5025 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567253.46 North: 2813266.29
14. Emission Point Comment (limit to 200 characters):

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

Emission Point Description and Type
Information for Facility-ID *1* **Emission Unit # :***3*

1. Identification of Point on Plot Plan or Flow Diagram: PTN service water diesel pump
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Service water diesel pump, S.S.G.F.P., air compressors, hydrolazers
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 8 ft
7. Exit Diameter: 0.33 ft
8. Exit Temperature: 770 °F
9. Actual Volumetric Flow Rate: 1120 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567419.67 North: 2813543.97
14. Emission Point Comment (limit to 200 characters):

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

Emission Point Description and Type
Information for Facility-ID *1* **Emission Unit # :***3*

1. Identification of Point on Plot Plan or Flow Diagram: PTN diesel air compressors
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): Service water diesel pump, S.S.G.F.P., air compressors, hydrolazers
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: NA
5. Discharge Type Code (D, F, H, P, R, V, W) : V
6. Stack Height: 6 ft
7. Exit Diameter: 0.5 ft
8. Exit Temperature: °F
9. Actual Volumetric Flow Rate: acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: East: North:
14. Emission Point Comment (limit to 200 characters): 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.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the Standby Steam Generator Diesel Feed Pump
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 Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the Standby Steam Generator Diesel at 400 hours per year of operation.

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

Segment Description and Rate:

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

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

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the hydrolazers
2. Source Classification Code **(SCC):** 2-01-001-02
3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.024
5. Maximum Annual Rate: 9.6
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the hydrolazers at 400 hours per year of operation each.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the six 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 Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the six diesel air compressors (combined) at 400 hours per year of operation each.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the 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 Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the combined fuel useage of the rental air compressors (21 each) at 400 hours per year of operation each.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (limit to 500 characters): Diesel fuel fired in the instrument air diesel air compressors
2. Source Classification Code **(SCC):** 2-01-001-02
3. SCC Units: thousand gallons
4. Maximum Hourly Rate: 0.03
5. Maximum Annual Rate: 12
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the Instrument Air Compressor Diesels (2 each) at 400 hours per year of operation.

G. EMISSIONS UNIT POLLUTANTS
(Regulated Emissions Units Only)

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

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

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

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

Pollutant Detail Information

1. Pollutant Emitted: Nitrogen Oxides

2. Total Percent Efficiency of Control: %

3. Potential Emissions: 240.68 lbs/hr 48.14 tons/yr

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

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

6. Emission Factor: 4.41 **Units** lb/mmBtu
Reference: AP42

7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 3
[ ] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):
4.41 lb/mmBtu x 43 gph x 0.136 mmBtu/gal = 25.78 lb/hr (S.S.G.F.)
4.41 x 15 gph x 0.136 mmBtu/gal = 9.0 lb/hr x 2 = 18 lb/hr (Inst. Air Diesels)
4.41 x 8 gph x 0.136 mmBtu/gal = 4.8 lb/hr x 3 = 14.39 lb/hr (hydrolazers)
4.41 x 44.6 gph x 0.136 mmBtu/gal = 26.75 lb/hr (Dsl Air Comp., 6ea., combined)
4.41 x 7.7 gph x 0.136 mmBtu/gal = 4.62 lb/hr (Svc water diesel pmp)
4.41 x 12 gph x 0.136 mmBtu/gal = 7.2 lb/hr x 21 = 151.14 lb/hr (Rent. Air Comp.)
25.78 + 18 + 14.39 + 26.75 + 4.62 + 151.14 = 240.68 lb/hr comb. total
240.68 lb/hr x 400 hr/yr = 96,272 lb / 2,000 lb/ton = 48.14 TPY

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):
FPL requests a fuel use limit of 160,520 gpy limit on diesel eqt. in this emission unit section, in lieu of annual emission testing, [DEP Rule 62-297.340(1)(c)2.].

Information for Facility_ID: *1* **Emission Unit #:** *3* **Pollutant #:** *1*
Basis For Allowable Emission #: 1

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 4.75 Units : lb/mmBtu
4. Equivalent Allowable Emissions: lbs/hr 48.14 tons/yr
5. Method of Compliance: Track diesel fuel useage on equipment in this EU section.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **76** 4.75 lb/mmBtu is the regulatory limit imposed by DEP Rule 62-296.570(4)(b)7.

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

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

Pollutant Detail Information

1. Pollutant Emitted: Carbon Monoxide

2. Total Percent Efficiency of Control: %

3. Potential Emissions: 51.85 lbs/hr 10.37 tons/yr

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

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

6. Emission Factor: 0.95 **Units** lb/mmBtu
Reference: AP42

7. Emissions Method Code: (0, 1, 2, 3, 4, 5): 3
[ ] 0 [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5

8. Calculation of Emissions (limit to 600 characters):
0.95 lb/mmBtu x 43 gph x 0.136 mmBtu/gal = 5.56 lb/hr (S.S.G.F.)
0.95 x 15 gph x 0.136 mmBtu/gal = 1.938 lb/hr x 2 = 3.88 lb/hr (Inst. Air Diesels)
0.95 x 8 gph x 0.136 mmBtu/gal = 1.0336 lb/hr x 3 = 3.1 lb/hr (hydrolazers)
0.95 x 44.6 gph x 0.136 mmBtu/gal = 5.76 lb/hr (Diesel Air Compressors, 6ea., combined)
0.95 x 12 gph x 0.136 mmBtu/gal = 1.55 lb/hr x 21 = 32.56 lb/hr (Rental Air Comp.)
0.95 x 7.7 gph x 0.136 mmBtu/gal = 0.99 lb/hr = (Svc water dsl pump)
5.56 + 3.88 + 3.1 + 5.76 + 0.99 + 32.56 = 51.85 lb/hr comb. total
51.85 lb/hour x 400 hours/year = 20,740 lb / 2,000 lb/ton = 10.37 TPY

9. Pollutant Potential/Estimated Emissions Comment (limit to 200 characters):
FPL requests a fuel use limit of 160.520 gpy on diesel eqt. in this emission unit section, in lieu of annual emission testing, [DEP Rule 62-297.340(1)(c)2.].

Information for Facility_ID: *1* **Emission Unit #:** *3* **Pollutant #:** *1*
Basis For Allowable Emission #: 2

Allowable Emissions (Pollutant identified on front page)

1. Basis for Allowable Emissions Code: Required or assumed by permittee for other reasons.
2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units: 10.37 Units : tons per year
4. Equivalent Allowable Emissions: lbs/hr 10.37 tons/yr
5. Method of Compliance: Track diesel fuel useage on diesel equipment in this EU section.
6. Pollutant Allowable Emissions Comment **(Desc. of Related Operating Method/Mode)** (limit to 200 characters)**:** **0**

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): FPL proposes to use fuel usage tracking to determine whether visible emission testing is required for the equipment in this emission unit.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

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

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions during startup, shutdown and malfunction are allowed, if the duration of excess emissions is minimized & total excess emission pd is < 2 hrs / 24 hrs. [Rule 62-210.700(1)].

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *3*
Continuous Monitor #:

Continuous Monitoring System

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

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

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

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM	U
SO2	U
NO2	U

4. Baseline Emissions:

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

5. PSD Comment (limit to 200 characters):

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

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

Supplemental Requirements for All Applications

1. Process Flow Diagram : PTNU3_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PTNU3_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : PTNU3_6.txt Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : PTNU3_10
Attached Document ID / Not Applicable

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

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

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

14. Acid Rain Permit Application

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

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

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

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

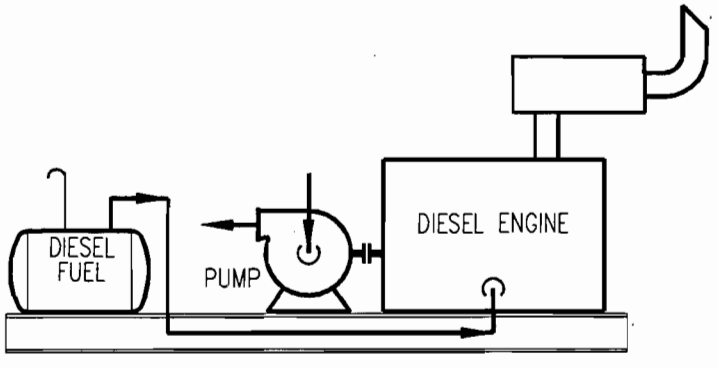
Not Applicable

ATTACHMENT: PTNU3A_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



STANDBY STEAM GENERATOR FEED PUMP

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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	SHEET	REV
JETS-M0023-YY	1 OF 1	0

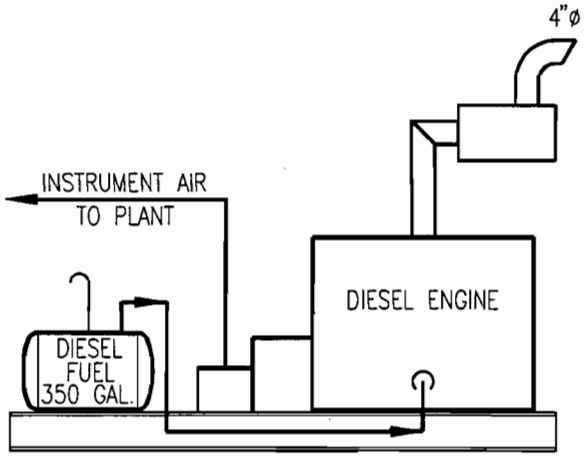
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU3B_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



INSTRUMENT AIR
DIESEL AIR COMPRESSOR (2)

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

FPL

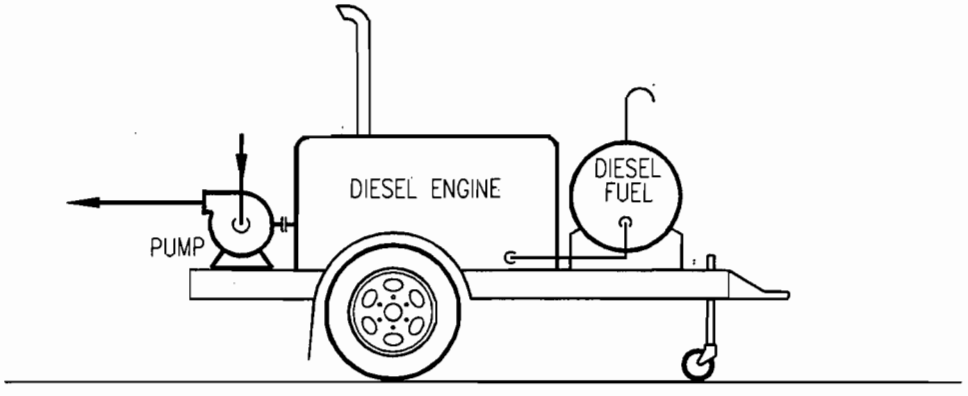
SYSTEM: YY	DISCIPLINE: M	PLANT/UNIT: TURKEY POINT NUCLEAR
SCALE: N/A	CAD FILE NAME: JP000634	TITLE: EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3B
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: JP000634	
DRAWING NUMBER: JETS-M0019-YY		SHEET: 1 OF 1 / REV: 0

FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU3C_1.bmp

TECHNICAL ACCEPTANCE		
ENGINEERING ORGANIZATION	ORG	
	BY	
	DATE	

WALKDOWN INFORMATION		
AS-BUILT INFORMATION	ORG	
	BY	
	DATE	



HYDROLAZERS (3)

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	TURKEY POINT NUCLEAR
SCALE: N/A	CAD FILE NAME: JP000641	TITLE: EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3C
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: JP000641	

DRAWING NUMBER	SHEET	REV
JETS-M0025-YY	1 OF 1	0

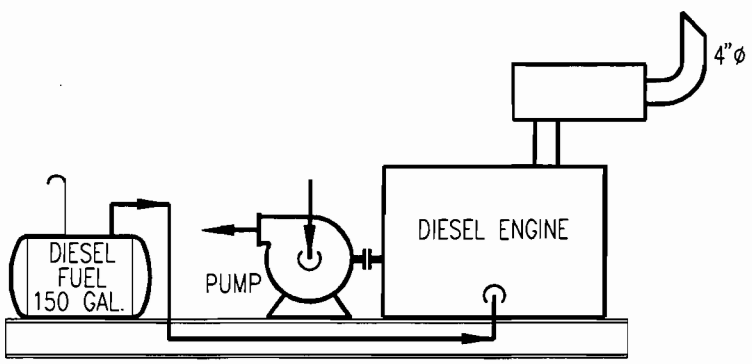
FPCSYM/FPCBDR-A 9/90

ATTACHMENT: PTNU3D_1.bmp

TECHNICAL ACCEPTANCE | ENGINEERING ORGANIZATION | ORG | BY | DATE

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

BAR CODE



SERVICE WATER DIESEL PUMP

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	TURKEY POINT NUCLEAR
SCALE: N/A	CAD FILE NAME: JP000632	TITLE: EMISSION UNIT FLOW DIAGRAM MISCELLANEOUS DIESELS ATTACHMENT NO. EU3D
DRAWING SIZE: A (8.5X11)	FPL ARCHIVE NAME: JP000632	

DRAWING NUMBER: JETS-M0017-YY | SHEET: 1 OF 1 | REV: 0

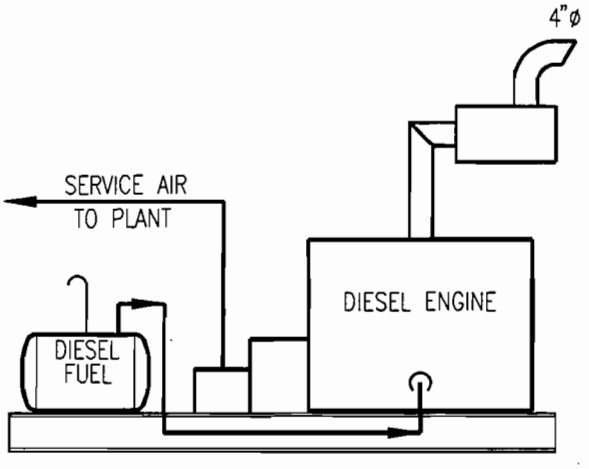
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU3E_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



SERVICE AIR COMPRESSORS (6)

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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	SHEET	REV
JETS-M0024-YY	1 OF 1	0

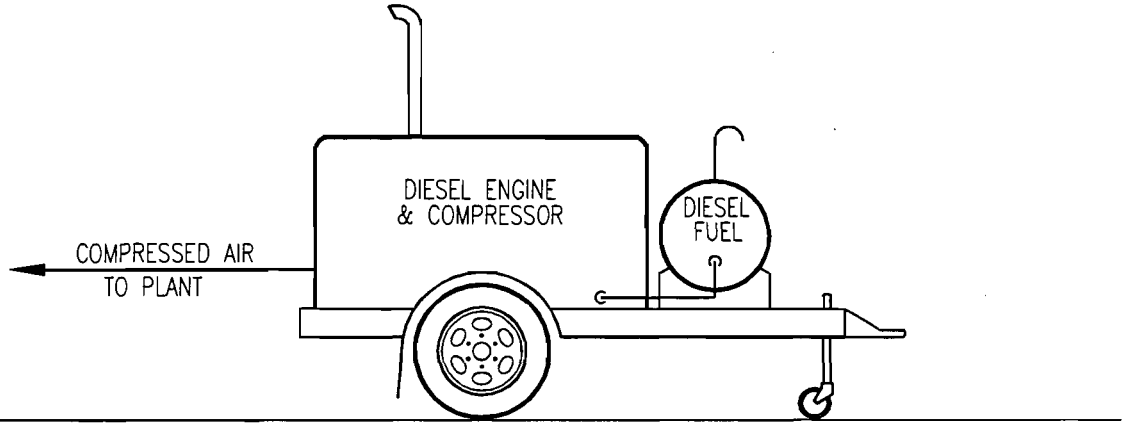
FPGSYM/FPGBDR-A 9/90

ATTACHMENT: PTNU3F_1.bmp

TECHNICAL ACCEPTANCE			
ENGINEERING ORGANIZATION	ORG		
	BY		
	DATE		

WALKDOWN INFORMATION			
AS-BUILT INFORMATION	ORG		
	BY		
	DATE		

BAR CODE



RENTAL AIR COMPRESSORS (21)

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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	

DRAWING NUMBER	SHEET	REV
JETS-M0025-YY	1 OF 1	0

FPGSYM/FPGBDR-A 9/90

Attachment PTNU3_2.txt

Fuel Analysis

Light Distillate oil (typical)*

Parameter	Typical value	Max value
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.txt

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.

III. EMISSIONS UNIT INFORMATION

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

A separate Emissions Unit Information Section (including subsections A through L as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application. Some of the subsections comprising the Emissions Unit Information Section of the form are intended for regulated emissions units only. Others are intended for both regulated and unregulated emissions units. Each subsection is appropriately marked.

A. TYPE OF EMISSIONS UNIT (Regulated and Unregulated Emissions Units)

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Units? Check one:

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

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

2. Single Process, Group Processes, or Fugitive Only?

Enter The Number (1-3): **2**

[1] This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).

[2] This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point(stack or vent) but may also produce fugitive emissions.

[3] This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

B. GENERAL EMISSIONS UNIT INFORMATION
(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section (limit to 60 characters): Unregulated emission units
2. Emissions Unit Identification Number: 4 (No Corresponding ID or Unknown)
3. Emission Unit Status Code: (A or C) : A
4. Acid Rain Unit? (Y/N): N
5. Emissions Unit Major Group SIC Code: 49
6. Emissions Unit Comment (limit to 500 characters): This emission unit 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 Fire Pump diesel, which is exempted from permitting by DEP Rule 62-210.300(3)(a)21, and is also exempted from NOx RACT by DEP Rule 62-296.570(1)(b).

Emissions Unit Control Equipment

A. Control Equipment # :

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

B. Control Equipment # :

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

C. Control Equipment # :

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

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units)

Emissions Unit Details

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

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate: mmBtu/hr
2. Maximum Incineration Rate: lbs/hr tons/day
3. Maximum Process or Throughput Rate: **Units:**
4. Maximum Production Rate: **Units:**
5. Operating Capacity Comment (limit to 200 characters): This emission unit is comprised of various emission sources which may operate up to 400 hours per year each, and thus escape the requirement for compliance testing, per Rule 62-297.340(1)(c)2..

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule: hours/day days/week weeks/yr 400 hours/yr

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Rule Applicability Analysis (Required for Category II applications and Category III applications involving non Title-V sources. See Instructions.)

Not Applicable

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

Emissions Unit ID 4

F.A.C. 62-210.300(3)(a)22. F.A.C. 62-210.700(1) F.A.C. 62-210.700(4)	F.A.C. 62-210.700(5) F.A.C. 62-210.700(6) F.A.C. 62-213.400	F.A.C. 62-213.410 F.A.C. 62-213.460 F.A.C. 62-296.320(4)(b)	F.A.C. 62-296.570(1)(b) F.A.C. 62-296.570(4)(a)3. F.A.C. 62-296.570(4)(b)7. F.A.C. 62-296.570(4)(c)

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

Emission Point Description and Type
Information for Facility-ID *1* **Emission Unit # :***4*

1. Identification of Point on Plot Plan or Flow Diagram: PTN fire system diesel pump
2. Emission Point Type Code (1,2,3,4) : 3
3. Descriptions of Emissions Points Comprising this Emissions Unit (limit to 100 characters): unregulated emission units
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:
5. Discharge Type Code (D, F, H, P, R, V, W) : H
6. Stack Height: 6 ft
7. Exit Diameter: 0.5 ft
8. Exit Temperature: 980 °F
9. Actual Volumetric Flow Rate: 3190 acfm
10. Percent Water Vapor: %
11. Maximum Dry Standard Flow Rate: 17 dscfm
12. Nonstack Emission Point Height: ft
13. Emission Point UTM Coordinates: Zone: 17 East: 567447.6 North: 2813544.11
14. Emission Point Comment (limit to 200 characters):

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (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
4. Maximum Hourly Rate: 0.018
5. Maximum Annual Rate: 7.2
6. Estimated Annual Activity Factor:
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash: 0.01
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Information provided above reflects the Fire System Diesel at 400 hours per year of operation.

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

Segment Description and Rate:

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

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) (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: 160000
7. Maximum Percent Sulfur: 0.5
8. Maximum Percent Ash:
9. Million Btu per SCC Unit: 136
10. Segment Comment (limit to 200 characters): Breathing loss = 36.73 lbs VOC / yr (per EPA Tanks2 program) Working loss = 7.10 lbs VOC / yr (per EPA Tanks2 program) Total estimated losses = 0.02 TPY, using estimated activity factor given above.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *4*
Visible Emissions Limitation #:

1. Visible Emissions Subtype: VE20
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions evaluations are not required to be performed annually if the emission unit operates less than 400 hours per year [DEP Rule 62-297.340(1)(c)2.].

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Information for Facility-ID : *1* Emission Unit #: *4*
Visible Emissions Limitation #:

1. Visible Emissions Subtype: VE100
2. Basis for Allowable Opacity Code(R/O): RULE [ ] Rule [ ] Other
3. Allowable Opacity: Normal Conditions: 100 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: 60 min/hr
4. Method of Compliance Code: EPA Method 9
5. Visible Emissions Comment (limit to 200 characters): Visible Emissions during startup, shutdown and malfunction are allowed, if the duration of excess emissions is minimized & total excess emission pd is < 2 hrs / 24 hrs. [Rule 62-210.700(1)].

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

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

Continuous Monitoring System

1. Parameter Code: 2. Pollutant(s):
3. CMS Requirement Code(R/O): Rule / Other
4. Monitor Information: Manufacturer: Model Number: Serial Number:
5. Installation Date (DD-MON-YYYY):
6. Performance Specification Test Date (DD-MON-YYYY):
7. Continuous Monitor Comment (limit to 200 characters): Continous monitors are not required for the unregulated emission unit equipment.

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

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

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

If the emissions unit addressed in this section emits particulate matter or sulfur dioxide, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for particulate matter or sulfur dioxide. Check the first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

If the emissions unit addressed in this section emits nitrogen oxides, answer the following series of questions to make a preliminary determination as to whether or not the emissions unit consumes PSD increment for nitrogen dioxide. Check first statement, if any, that applies and skip remaining statements.

Select (1-5) : 5

[1] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. Final determination is that emissions unit consumes increment.

[2] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 17-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[3] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[4] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. Preliminary determination is that baseline emissions are zero, and emissions unit consumes increment.

[5] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code: (C, E, U- unkown):

PM	U
SO2	U
NO2	U

4. Baseline Emissions:

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

5. PSD Comment (limit to 200 characters):

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

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

Supplemental Requirements for All Applications

1. Process Flow Diagram : PTNU4_1.bmp Attached Document ID / Not Applicable / Waiver Requested
2. Fuel Analysis or Specification: PTNU3_2.txt Attached Document ID / Not Applicable / Waiver Requested
3. Detailed Description of Control Equipment : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
4. Description of Stack Sampling Facilities : Not Applicable Attached Document ID / Not Applicable / Waiver Requested
5. Compliance Test Report : Not Applicable Attached Document ID / Previously submitted, Date / Not Applicable
6. Procedures for Startup and Shutdown : Not Applicable Attached Document ID / Not Applicable
7. Operation and Maintenance Plan : Not Applicable Attached Document ID / Not Applicable
8. Supplemental Information for Construction Permit Application : Not Applicable Attached Document ID / Not Applicable
9. Other Information Required by Rule or Statute : Not Applicable Attached Document ID / Not Applicable

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operation : Not Applicable
Attached Document ID / Not Applicable

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

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

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

14. Acid Rain Permit Application

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

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

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

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

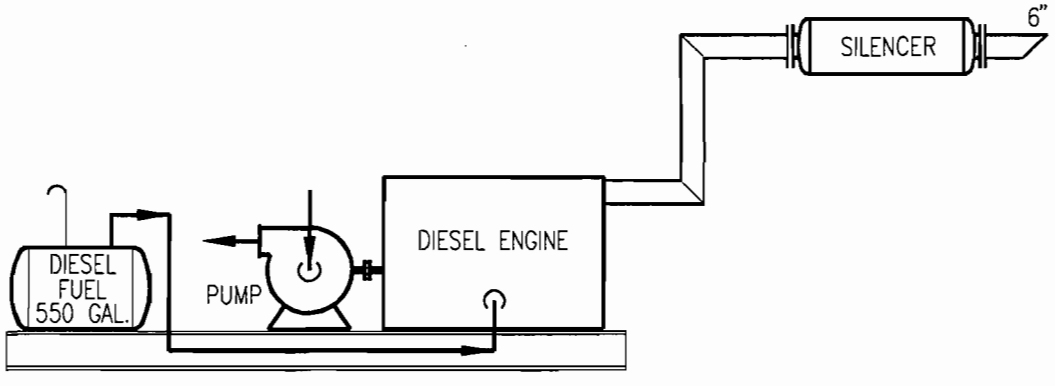
Not Applicable

ATTACHMENT: PTNU4A_1.bmp

TECHNICAL ACCEPTANCE	ORG	BY	DATE
ENGINEERING ORGANIZATION			

WALKDOWN INFORMATION	ORG	BY	DATE
AS-BUILT INFORMATION			

BAR CODE



FIRE PUMP DIESEL

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

FPL

SYSTEM	DISCIPLINE	PLANT/UNIT
YY	M	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: JP.000631	

DRAWING NUMBER: JETS-M0016-YY

SHEET: 1 OF 1 | REV: 0

FPGSYM/FPGBDR-A 9/90

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Following are several pages of unregulated trivial and de minimis emission units and activities at the facility. The trivial activities identified in this application are provided for information only and are identified as examples of, but not limited to, the trivial activities identified by the Division of Air Resources Management's (DARM) guidance. It is understood that such activities do not have to be included in the with Title V Application. The trivial activities identified herein are consistent, in terms of amounts of emissions and types, with those activities listed in DARM's guidance.

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

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Reactor Power Operation

Pressurizer

Reactor Drain Tank

Safety Injection Tanks

Reactor Refueling

Containment Cleanup

Containment Purge

Plant Vent

RCP Oil Collection Tank

Volume Control Tank

Hol-Up Tanks

Boric Acid Make-up Tanks

CVCS Ion Exchange & Filters

Primary Water Tank/Degas

Boric Acid Storage Tank

Aux Building Exhaust

Chemical Add Tank

high Pressure Safety Injection

Low Pressure Safety Injection

Containment Spray

Refueling Water Tank

Fuel Pool Cooling

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Letdown Heat Exchanger

RCP Seal Injection

Misc Primary System Cooling

Laundry Drain Tank

Equipment Drain Tank

Waste Hold-up Tanks

Waste Ion Exchange & Filters

Spent Resin Tank

Liquid Radwaste Monitoring Tanks

Waste Gas compressors

Surge Tank

Gas Decay Tanks

Control Room kitchen vents

Control Room Toilet Vents

Lead Acid Battery Room Vents

Health Physics Office Vent

Laundry Rooms Vents

Resin transfer Operations

Chemical Hot Labs

RCS Sample System

PASS Sample System

Chemistry / HP Counting Rooms

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Demineralizer Water Tank

Fuel Pool

Fuel Building Exhaust

Diesel Oil Storage Tanks

Dry Storage Warehouse

Offices / computer rooms

Electrical generator H2

Electrical Generator CO2

Lube Oil Vapor Extractor System

DEH System Reservoir

Turbine Cooling Water System

Excitor Cooling System

Turbine Switch Gear

Transformer Cooling Fans

Transformer Maintenance

Atmospheric Dumps

Safety Relief Valves

Auxiliary Steam

Steam Generator Wet Lay-Up

Steam Generator Sluge Lancing

Steam Jet Air Ejector

Water Box Priming

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Condenser Storage Tank & Degasifier

Gland Steam Recovery Tank

Feed Pump Seal Leakoff / Tank

Condensate Polisher

Chemical Addition Tanks

Wet Lay-up System & tank

Steam Generator Blowdown

Chemistry Cold Lab

Chemistry Operations Offices

Chemistry Store Room

Turbine Lube Oil Tank

Oily water separators

Satellite Accumulation Drum

Used Oil collection

Screen Wash Collection Pit

Raw Water Storage Tank

Treated water storage tank

Resin & Charcoal Vessels

Neutralization Basin

Neutralization Tank

Sulfuric Acid Tank

Sodium Hydroxide Tanks

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

Brine heating tank

Degasifier

Water Treatment Plant control building

Equipment

Gas house

Nitrogen Dewar / Trailer

Hydrogen tube trailer

hydrolazing

pesticide application

lawn maintenance

Open Material Stockpiles

Storm Basins

Temporary Trailer Offices

Port-a-johns

Flammable Liquid Storage Cabinets

Ranger Hut Vents

Machine Shop Vents

Sewage plant gases

sludge tankers

Maintenance Building Vents

Covered Work Area Vents

Cafeteria Vents

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

ANPO Offices vents

Fire House materials

Operations Support Center Vents

Warehouse offices Vents

Break Area Vents

Carpenter Shop / Offices Vents

Weld Test Shop Vents

Backfit Maintenance Building Vents

AC Shop Vents

Security Building Vents

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

Attachment PTN - FW

List of Unregulated Trivial & De Minimis Activities

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

STATE OF FLORIDA

DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

BOB MARTINEZ
GOVERNOR

DALE TWACHTMANN
SECRETARY

March 8, 1988

Dr. Martin A. Smith
Florida Power & Light Company
Post Office Box 14000
Juno Beach, Florida 33408

Re: Proposed FPL Emergency Diesel Generators

Dear Dr. Smith:

The Department has reviewed the information submitted by Florida Power & Light Company regarding the two emergency diesel generating sets to be constructed at the Turkey Point Power Plant. Based upon that information, the Department has determined, pursuant to Rule 17-4.04(11), F.A.C., that the proposed diesel generators will not emit any regulated air pollutants in sufficient quantity as to contribute significantly to the air pollution problems within the State. Additionally, in view of the Department's current consideration of expansion of the specific permit exemptions in F.A.C. Rule 17-2.210(3) to include various types of standby and emergency generating units, the Department has determined that no permit action regarding the proposed diesel generators is necessary at this time. This decision will be reviewed following completion of the Department's corrective amendments rulemaking, in light of any new permit exemptions adopted as part of that effort.

This exemption does not relieve FPL from obtaining any permits that may be required by other state, federal or local laws.

Sincerely,

Dale Twachtmann

Dale Twachtmann
Secretary

DT/jp