Department of
Environmental Protection

DIVISION OF AIR RESOURCES MANAGEMENT

APPLICATION FOR AIR PERMIT - LONG FORM

I. APPLICATION INFORMATION

Identification of Facility Addressed in This Application

1. Facility Owner/Company Name :
   Fort Pierce Utilities Authority

2. Site Name :
   H.D. King Power Plant

3. Facility Identification Number : 1110003 * [ ] Unknown

4. Facility Location :
   Fort Pierce Utilities Authority
   H.D. King Power Plant
   311 North Indian River Drive
   Fort Pierce, Florida 34950
   Facility I.D. 50WPB560003
   AIRS I.D. 1110003

   Street Address or Other Locator : 311 North Indian River Drive
   City : Fort Pierce County : St. Lucie Zip Code : 34950-____

5. Relocatable Facility?
   [ ] Yes [X] No

6. Existing Permitted Facility?
   [X] Yes [ ] No

1110003 - 003 - AV
Recd 6/14/96

DEP Form No. 62-210.900(1) - Form
Effective : 3-21-96

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Thomas W. Richards
Title : Director of Operations

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : Fort Pierce Utilities Authority
Street Address : P.O. Box 3191
City : Fort Pierce
State : FL Zip Code : 34948-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone :(407)466-1600 Fax : (407)465-6984

4. Owner/Authorized Representative or Responsible Official Statement :

I, the undersigned, am the owner or authorized representative of the non-Title V sourc*

_____ _____
Signature Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID		Description of Emissions Unit		Permit Type
001	*	2.75 MW West Diesel #1	+	
002	*	2.75 MW East Diesel #2	+	
003	*	31.6 MW Combined Cycle Gas Turbine Unit # 9	+	
004	*	16.5 MW Boiler Unit #6	+	
007	*	33.0 MW Boiler Unit #7	+	
008	*	56.1 MW Boiler Unit #8	+	
No	*	(1) Cooling Tower	+	

Purpose of Application and Category

Category I : All Air Operation Permit Applications Subject to Processing Under Chapter 62-213, F.A.C.

This Application for Air Permit is submitted to obtain :

[X] Initial air operation permit under Chapter 62-213, F.A.C., for an existing facility which is classified as a Title V source.

[ ] Initial air operation permit under Chapter 62-213, 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 :

[ ] Air operation permit renewal under Chapter 62-213, F.A.C., for a Title V source.

Operation permit to be renewed :

[ ] 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 :

[ ] 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.

Operation permit to be revised/corrected :

[ ] Air operation permit revision for a Title V source for reasons other than construction or modification of an emissions unit.

Operation permit to be revised :

Reason for revision :

Category II : All Air Operation Permit Applications Subject to Processing Under Rule 62-210.300(2)(b), F.A.C.

This Application for Air Permit is submitted to obtain :

[ ] Initial air operation permit under Rule 62-210.300(2)(b), F.A.C., for an existing facility seeking classification as a synthetic non-Title V source.

Current operation/construction permit number(s) :

[ ] Renewal air operation permit under Fule 62-210.300(2)(b), F.A.C., for a synthetic non-Title V source.

Operation permit to be renewed :

[ ] Air operation permit revision for a synthetic non-Title V source.

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 :

[ ] 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 :

[ ] 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) :

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

Application Processing Fee

Check one :

[ ] Attached - Amount : _____ [X] Not Applicable.

Construction/Modification Information

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

Professional Engineer Certification

1. Professional Engineer Name : Ivan L. Clark Registration Number : 0049777
2. Professional Engineer Mailing Address : Organization/Firm : R.W. Beck Street Address : 1125 17th Street, Suite 1900 City : Denver State : CO Zip Code : 80202-2615
3. Professional Engineer Telephone Numbers : Telephone : (303)299-5247 Fax : (303)297-2811

4. Professional Engineer Statement :

I, the undersigned, hereby certified, 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 pollutant control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

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

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

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

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

_____ _____

Signature Date

(seal)

* Attach any exception to certification statement.

Application Contact

1. Name and Title of Application Contact :

Name : Harry Lamb
Title : Superintendent/Power Resources

2. Application Contact Mailing Address :

Organization/Firm : Fort Pierce Utilities Authority
Street Address : 311 North Indian River Drive
City : Fort Pierce
State : FL Zip Code : 34950-____

3. Application Contact Telephone Numbers :

Telephone : (407)464-5792 Fax : (407)465-7596

Application Comment

This application contains certain information and data on unregulated units which was included prior to the FDEP's permit simplification changes, but is no longer required. Due to the cumbersome nature of the electronic software (ELSA) and time constraints, this information was not deleted. The information is not displayed in the ELSA software, but is displayed when the application forms are printed out. Such information has not been updated or verified, may be inaccurate, and should not be reviewed or relied upon in any way.

Additionally, note that this application is submitted using ELSA version 1.3a because it was finalized prior to the FDEP's decision not to release this version. Section III G, Emissions Unit Pollutants, does not print out correctly and information for pollutants from one specific unit may be printed out in the table for another unit.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates : Zone : 17 East (km) : 566.80 North (km) : 3036.30			
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : 27 27 Longitude (DD/MM/SS) : 80 19 26			
3. Governmental Facility Code : 4	4. Facility Status Code : A	5. Facility Major Group SIC Code : 49	6. Facility SIC(s) :
7. Facility Comment : The facility is an electric power plant. It consists of two 2.75-MW diesel-electric generating units, one 16.5-MW steam-electric unit, one 33-MW steam-electric unit, one 56.1-MW steam electric unit, and one 31.6-MW combined cycle gas turbine (23.4-MW turbine and 8.2-MW heat recovery steam generator (HRSG)). The combined cycle gas turbine is not an Acid Rain affected unit, as the HRSG is not supplementally fired.			
DEP Facility Comment			

Facility Contact

1. Name and Title of Facility Contact : Harry Lamb Superintendent/Power Resources
2. Facility Contact Mailing Address : Organization/Firm : Fort Pierce Utilities Authority Street Address : 311 North Indian River Drive City : Fort Pierce State : FL Zip Code : 34950-____
3. Facility Contact Telephone Numbers : Telephone : (407)464-5792 Fax : (407)465-7596

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3. Governmental Facility Code :	4. Facility Status Code :	5. Facility Major Group SIC Code +	6. Facility SIC(s) :
7. Facility Comment :			
DEP Facility Comment : +			

Facility Contact

1. Name and Title of Facility Contact :
2. Facility Contact Mailing Address : Organization/Firm : Street Address : City : State : Zip Code :
3. Facility Contact Telephone Numbers : Telephone : Fax :

Property Boundary

UTM Coordinates :

Zone : + East : km + North : km +

Building Identification

Identification of Building on Plot Plan or Flow Diagram :

+

Building Height : FT +

Building Boundary

UTM Coordinates :

Zone : + East : km + North : km +

Facility Contact

1. Name and Title of Facility Contact :

Name : Harry Lamb
Title : Superintendent/Power Resources

2. Facility Contact Mailing Address :

Organization/Firm : Fort Pierce Utilities Authority
Street Address : 311 North Indian River Drive
City : Fort Pierce
State : FL Zip Code : 34950-____

3. Facility Contact Telephone Numbers :

Telephone : (407)464-5792 Fax : (407)465-7596

Facility Regulatory Classifications

1. Small Business Stationary Source?	N
2. Title V Source?	Y
3. Synthetic Non-Title V Source?	N
4. Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	Y
5. Synthetic Minor Source of Pollutants Other than HAPs?	N
6. Major Source of Hazardous Air Pollutants (HAPs)?	N
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	Y
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment :	
Ozone SIP Facility :	+
Annual Operating Report Required :	+

B. FACILITY REGULATIONS

Rule Applicability Analysis

B. FACILITY REGULATIONS

List of Applicable Regulations

40 CFR 60.7 - Notification and Recordkeeping (NSPS)

40 CFR 60.8 - Performance Tests (NSPS)

40 CFR 60.11 - Compliance with Standards and Maintenance Requirements (NSPS)

40 CFR 60.12 - Circumvention (NSPS)

40 CFR 60.13 - Monitoring Requirements (NSPS)

40 CFR 60 - Subpart D - Standards of Performance for Fossil-Fuel-Fired Steam Generators (NSPS)

40 CFR 60 - Subpart GG - Standards of Performance for Stationary Gas Turbines (NSPS)

40 CFR 70 - State Operating Permits

40 CFR 72 - Regulations on Permits

40 CFR 73 - SO2 Allowance System

40 CFR 75 - Regulations for CEMs under Acid Rain Requirements

40 CFR 77 - Excess Emissions for Acid Rain Units

40 CFR 78 - Appeal Procedures for Acid Rain Units

40 CFR 60.19 - General Notification and Reporting Requirements

62-4.001 through 62-4.160, FAC - Permits Part I General

B. FACILITY REGULATIONS

List of Applicable Regulations

62-4.210,FAC - Construction Permits

62-4.220,FAC - Operation Permit for New Sources

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources

62-212.300,FAC - Sources not Subject to PSD or Nonattainment Requirements

62-213,FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240,FAC - Ambient Air Quality Standards

62-296.320(4)(b),FAC - General Visible Emission Standards

62-296.320(4)(c),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-296.405(1),FAC - Spec Emiss Limiting & Perf Stds for Existg Foss Fuel Fire Stm Gen >250 MMBtu/hr

62-297.310,FAC -General Test Requirements

62-297.401, FAC - Compliance Test Methods

62-297.620, FAC -Exceptions and Approvald of Alternative Procedures and Requirements

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant _____

1. Pollutant Emitted :
2. Requested Emissions Cap : (lbs/hour) (tons/year)
3. Basis for Emissions Cap Code :
4. Facility Pollutant Comment :

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	Figure 1 ✓
2. Facility Plot Plan :	Figure 2 ✓
3. Process Flow Diagram(s) :	Figures 3-8 ✓
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	ftpcpart.wk4
5. Fugitive Emissions Identification :	NA
6. Supplemental Information for Construction Permit Application :	NA

Additional Supplemental Requirements for Category I Applications Only

7. List of Proposed Exempt Activities :	ftpinsig.wk4
8. List of Equipment/Activities Regulated under Title VI :	ftp_cfcs.wk4
9. Alternative Methods of Operation :	ftpcaltm.wk4
10. Alternative Modes of Operation (Emissions Trading) :	NA
11. Identification of Additional Applicable Requirements :	Attachment F ✓ - Permits
12. Compliance Assurance Monitoring Plan :	
13. Risk Management Plan Verification :	NA
14. Compliance Report and Plan :	ftpccomp.wk4
15. Compliance Certification (Hard-copy Required) :	Attachment A ✓

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 1

2.75 MW West Diesel #1 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 1

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 2.75 MW West Diesel #1 Description of Emissions Unit for AIRS Tracking : + 2.75 MW West Diesel #1		
2. Emissions Unit Identification Number : 001 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49 +
6. Emissions Unit Comment : DEP Emissions Unit Comment : Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Emissions Unit Details

1. Initial Startup Date :	03-Jan-1970
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Motors Corporation	Model Number : MP-45
4. Generator Nameplate Rating : 3 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	29	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Unit 001 is currently limited to 28.9 MMBtu/hr maximum heat input.			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Rule Applicability Analysis

List of Applicable Regulations

40CFR70 - State Operating Permits

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources, except 62-210.550, FAC - Stack Height

62-213,FAC - Operation Permits for Major Sources of Air

62-272.300,FAC - Ambient Air Quality Standards

62-273,FAC - Air Pollution Episodes

62-296.310(2)(a),FAC - General Visible Emission

62-296.310(3),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-297.310 through 62-297.400,FAC - Compliance Test Requirements

62-297.570,FAC - Compliance Test Reports

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

2.75 MW West Diesel #1

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 1 Diesel	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	23	feet
7. Exit Diameter :	3.0	feet
8. Exit Temperature :	950	°F *
9. Actual Volumetric Flow Rate :	16595	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :		
Good Engineering Practice Stack Height :	+	
14. Emission Point Comment :		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

2.75 MW West Diesel #1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 Distillate Fuel Oil Burned in Diesel Engine	
2. Source Classification Code (SCC) : 2-02-004-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.21	5. Maximum Annual Rate : 1,826.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 139	
10. Segment Comment :	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 1
2.75 MW West Diesel #1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		NS
2 - NOX *	*		NS
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - SO2 *	*		NS
6 - VOC *	*		NS

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 23.41 lb/hour 102.53 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.81 lbs/MMBtu x 28.90 MMBtu/hr = 23.41 lbs/hr 23.41 lbs/hr x ton/2000lbs x 8760 hr/yr = 102.53
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 89.59 lb/hour 392.40 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 3.1 lbs/MMBtu x 28.90 MMBtu/hr = 89.59 lbs/hr 89.59 lbs/hr x ton/2000lbs x 8760 hr/yr = 392.40 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 10.42 lb/hour 45.66 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 50 lbs/1000gal x 1000 gal/138.62 MMBtu x 28.90 MMBtu/hr = 10.42 lbs/hr 10.42 lbs/hr x ton/2000lbs x 8760 hr/yr = 45.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 9.59 lb/hour 42.01 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 46lbs/1000gal x 1000gal/138.62MMBtu x 28.90 MMBtu/hr = 9.59 lbs/hr 9.59 lbs/hr x ton/2000lbs x 8760 hr/yr = 42.01
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 15.01 lb/hour 65.75 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 *
8. Calculations of Emissions : 1000gal/138.62MMBtu x 7.2lbs/gal x 0.5%S x 2 = .5194 lbs/MMBtu .5194lbs/MMBtu x 28.90 MMBtu/hr = 15.01 lbs/hr 15.01 lbs/hr x ton/2000lbs x 8760 hr/yr = 65.75 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.89 lb/hour 12.66 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : .10 lbs/MMBtu x 28.9 MMBtu/hr = 2.89 lbs/hr 2.89 lbs/hr x ton/2000lbs x 8760 hr/yr = 12.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 1
2.75 MW West Diesel #1

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	%
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :

Requested exceptional condition opacity limit is to allow for start up, malfunction, and low load operation required for testing and for operation after overhaul.
General emission standard under 62-296.310(2)(a),FAC. As per 62-210.700(1),FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 1

2.75 MW West Diesel #1

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] None of the above apply. If so, 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 :

PM : U	SO2 : U	NO2 : U

4. Baseline Emissions :

PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year

5. PSD Comment :

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 1

2.75 MW West Diesel #1

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 3
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 2

2.75 MW East Diesel #2 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 2

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 2.75 MW East Diesel #2 Description of Emissions Unit for AIRS Tracking : + 2.75 MW East Diesel #2		
2. Emissions Unit Identification Number : 002 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49 +
6. Emissions Unit Comment : DEP Emissions Unit Comment : Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Emissions Unit Details

1. Initial Startup Date :	03-Jan-1970
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Motors Corporation	Model Number : MP-45
4. Generator Nameplate Rating : 3 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	29	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Unit 002 is currently limited to 28.9 MMBtu/hr maximum heat input.			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Rule Applicability Analysis

List of Applicable Regulations

40CFR70 - State Operating Permits

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources, except 62-210.550, FAC - Stack Height

62-213,FAC - Operation Permits for Major Sources of Air

62-272.300,FAC - Ambient Air Quality Standards

62-273,FAC - Air Pollution Episodes

62-296.310(2)(a),FAC - General Visible Emission Standards

62-296.310(3),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-297.310 through 62-297.400,FAC - Compliance Test Requirements

62-297.570,FAC - Compliance Test Reports

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

2.75 MW East Diesel #2

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 2 Diesel	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	23	feet
7. Exit Diameter :	3.0	feet
8. Exit Temperature :	950	°F *
9. Actual Volumetric Flow Rate :	16595	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :		
Good Engineering Practice Stack Height :	+	
14. Emission Point Comment :		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

2.75 MW East Diesel #2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 distillate fuel oil burned in diesel engine	
2. Source Classification Code (SCC) : 2-02-004-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 0.21	5. Maximum Annual Rate : 1,826.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 139	
10. Segment Comment :	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 2
2.75 MW East Diesel #2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		NS
2 - NOX *	*		NS
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - SO2 *	*		NS
6 - VOC *	*		NS

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 23.41 lb/hour 102.53 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.81 lbs/MMBtu x 28.90 MMBtu/hr = 23.41 lbs/hr 23.41 lbs/hr x ton/2000lbs x 8760 hrs/yr = 102.53
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 89.59 lb/hour 392.40 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 3.1 lbs/MMBtu x 28.90 MMBtu/hr = 89.59 lbs/hr 89.59 lbs/hr x ton/2000lbs x 8760 hrs/yr = 392.40 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 10.42 lb/hour 45.66 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 50lbs/1000gal x 1000gal/138.62MMBtu = .3607 lbs/MMBtu .3607 lbs/MMBtu x 28.90 MMBtu/hr = 10.42 lbs/hr 10.42 lbs/hr x ton/2000lbs x 8760 hrs/yr = 45.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 9.59 lb/hour 42.01 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AIRS Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 46lbs/1000gal x 1000gal/138.62MMBtu = .3319 lbs/MMBtu .3319 lbs/MMBtu x 28.90 MMBtu/hr = 9.59 lbs/hr 9.59 lbs/hr x ton/2000lbs x 8760 hrs/yr = 42.01 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 15.01 lb/hour 65.75 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Mass Balance Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 2 *
8. Calculations of Emissions : 1000gal/138.62MMBtu x 7.2 lbs/gal x 0.5%S x 2 = .5194 lbs/MMBtu .5194 lbs/MMBtu x 28.90 MMBtu/hr = 15.01 lbs/hr 15.01 lbs/hr x ton/2000lbs x 8760 hrs/yr = 65.75 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.89 lb/hour 12.66 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.10lbs/MMBtu x 28.90 MMBtu/hr = 2.89 lbs/hr 2.89 lbs/hr x ton/2000lbs x 8760 hrs/yr = 12.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment :

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 2
2.75 MW East Diesel #2

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	%
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :
Requested exceptional condition opacity limit is to allow for start up, malfunction, and low load operation required for testing and for operation after overhaul.
General emission standard under 62-296.310(2)(a),FAC. As per 62-210.700(1),FAC excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 2

2.75 MW East Diesel #2

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] None of the above apply. If so, 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 :		
PM : U	SO2 : U	NO2 : U
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 2

2.75 MW East Diesel #2

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 4
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	NA
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	NA
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 3

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : *
31.6 MW Combined Cycle Gas Turbine Unit # 9

Description of Emissions Unit for AIRS Tracking : +
31.6 MW Combined Cycle Gas Turbine Unit # 9

2. Emissions Unit Identification Number : 003 *
[ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code : A *	[ ] Yes [X] No *	Group SIC Code : 49 +

6. Emissions Unit Comment :
The maximum output of the gas turbine is dependent upon the ambient temperature and is approximately 23.4 MW. The output from the heat recovery steam generator (HRSG) is 8.2 MW. Because the gas turbine is less than 25-MW and the HRSG is not supplementally-fired, the unit is not an acid rain unit.

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
0 +

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Emissions Unit Control Equipment 1

1. Description : Steam Injection for NOx control
2. Control Device or Method Code : 28 *

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Emissions Unit Details

1. Initial Startup Date :	01-Jan-1989
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : General Electric	Model Number : 295352
4. Generator Nameplate Rating : 32 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	415	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,736 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Rule Applicability Analysis

List of Applicable Regulations

40 CFR 60.7 - Notification and Recordkeeping (NSPS)

40 CFR 60.8 - Performance Tests (NSPS)

40 CFR 60.11 - Compliance with Standards and Maintenance Requirements (NSPS)

40 CFR 60.12 - Circumvention (NSPS)

40 CFR 60.13 - Monitoring Requirements (NSPS)

40 CFR 60.19 - General Notification and Reporting

40 CFR 60 - Subpart GG - Standards of Performance for Stationary Gas Turbines (NSPS)

40 CFR 70 - State Operating Permits

62-4.001 through 62-4.160,FAC - Permits Part I General

62-4.210,FAC - Construction Permits

62-4.220,FAC - Operation Permit for New Sources

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources

62-212.300,FAC - Sources not Subject to PSD or Nonattainment Requirements

62-213,FAC - Operation Permits for Major Sources of Air

62-204.240,FAC - Ambient Air Quality Standards

62-296.320(4)(b),FAC - General Visible Emission Standards

62-296.320(4)(c),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-297.310,FAC - General Test Requirements

62-297.401, FAC - Compliance Test Methods

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

List of Applicable Regulations

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 9 GT	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	68	feet
7. Exit Diameter :	11.2	feet
8. Exit Temperature :	426	°F *
9. Actual Volumetric Flow Rate :	353500	acfm
10. Percent Water Vapor :	9.07	%
11. Maximum Dry Standard Flow Rate :	221585	dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates :		
Zone : East (km) :	North (km) :	
Good Engineering Practice Stack Height : +		
14. Emission Point Comment :		

The combustion turbine stack has a rectangular exit with dimensions 10.6 ft. by 9.25 ft. The equivalent diameter for a stack with a circular exit is 11.2 ft. The combustion turbine exhausts through a heat recovery steam generator.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   Natural gas burned as primary fuel in gas turbine (emissions related to million cubic feet burned); No. 2 distillate fuel oil burned as emergency backup fuel in gas turbine (emissions related to 1000 gallons of fuel burned)

2. Source Classification Code (SCC) : 2-01-002-01 *

3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)

4. Maximum Hourly Rate : 0.40	5. Maximum Annual Rate : 3,521.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
Percent Sulfur Limit : +	
9. Million Btu per SCC Unit : 1,031	

10. Segment Comment :

    The sulfur content of natural gas is nil. The hours of operation for the unit is limited by the existing air permit to 8736 hours per year.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   No. 2 distillate fuel oil used only as emergency backup fuel burned in gas turbine (emissions related to 1000 gallons burned); Natural gas is primary fuel burned.

2. Source Classification Code (SCC) : 2-01-001-01 *

3. SCC Units : Thousand Gallons Burned (all liquid fuels)

4. Maximum Hourly Rate : 2.99	5. Maximum Annual Rate : 26,109.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 139	

10. Segment Comment :

    The sulfur content of fuel burned in the combustion turnbine is limited by the current permit to 0.5% sulfur by weight.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		EL
2 - NOX *	028 *		EL
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - SO2 *	*		EL
6 - VOC *	*		NS

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 32.85 lb/hour 110.40 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Permit Limit Unit Code : lbs +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 32.85 lbs/hr (existing air permit limit) 110.4 tons/yr (existing air permit limit)
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions of CO are currently limited in the existing air permit to 32.85 lbs/hr and 110.4 tons/yr, when burning natural gas.

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 32.85 * lbs/hr *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

32.85	lb/hour	110.40	tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 10, conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limits. This allowable emissions limit is only applicable during natural gas firing. No. 2 fuel oil may be burned as an emergency back-up fuel.

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : 53.20 %
3. Potential Emissions : 135.69 lb/hour 592.69 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.698 lbs/MMBtu x 415.3 MMBtu/hr X(1-53.2%) = 135.69 lbs/hr 135.69 lbs/hr x 8736 hrs/yr x 1 ton/2000 lbs = 592.69 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions are based on an existing air permit stack gas limitation of 84 ppm NOx. Maximum NOx emissions occur with the combustion of No. 2 Fuel Oil. Synthetic limit based on 8736 hours of operation per year.

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	84.00	*	ppm	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	128.60	lb/hour	561.74	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 20, conducted while the unit is operating within 10% of its rated capacity. Additionally, 40 CFR 60 Subpart GG - NSPS Monitoring requirements will be met, including: 1) a continuous monitoring system will monitor and record the fuel consumption and ratio of water to fuel being fired in the turbine; and 2) the nitrogen content of the fuel being fired will be monitored.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit and 40 CFR 60.332. This allowable emissions limit is only applicable during natural gas firing. No. 2 fuel oil may be burned as an emergency back-up fuel.

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	84.00	*	ppm	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	135.69	lb/hour	592.69	tons/year

5. Method of Compliance :
40 CFR 60 Subpart GG - NSPS Monitoring requirements will be met, including: 1) a continuous monitoring system will monitor and record the fuel consumption and ratio of water to fuel being fired in the turbine; and 2) the nitrogen content of the fuel being fired will be monitored.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit and 40 CFR 60.332. This allowable emissions limit is only applicable during fuel oil firing. No. 2 fuel oil may be burned as an emergency back-up fuel.

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 25.33 lb/hour 110.66 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : .061 lbs/MMBtu x 415.3 MMBtu/hr = 25.33 lbs/hr 25.33 lbs/hr x ton/2000lbs x 8736hrs/yr = 110.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Synthetic limit based on 8736 hours of operation per year. Maximum PM emissions occur during combustion of No. 2 fuel oil.

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 25.33 lb/hour 110.66 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : .061 lbs/MMBtu x 415.3 MMBtu/hr = 25.33 lbs/hr 25.33 lbs/hr x ton/2000lbs x 8736 hrs/yr =110.66 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : All PM emissions assumed as PM-10 emissions. Synthetic limit based on 8736 hours of operation per year. Maximum PM-10 emissions occur during combustion of No. 2 fuel oil.

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted :	**SO2** *
2. Total Percent Efficiency of Control :	%
3. Potential Emissions :	319.51 lb/hour 1,395.62 tons/year
4. Synthetically Limited?	[X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions:	to tons/year
6. Emissions Factor :	Reference : Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code :	5 *

8. Calculations of Emissions :

Current permit limit is 150 ppmvd @ 15% O2.
150 cu. ft. SO2/1,000,000 cu. ft. gas x 8710 cu. ft. gas/MMBtu x (20.9/(20.9-15)) x 415.3 MMBtu/hr x 64 lb/385 cu. ft. = 319.51 lbs/hr ;
319.51 lbs/hr x ton/2000lbs x 8736 hrs/yr = 1395.62 tons/yr

9. Pollutant Potential/Estimated Emissions Comment :

Potential SO2 emissions are based on the current permit limitation of 0.015% SO2 by volume at 15% oxygen on a dry basis. Synthetic limit is based on 8736 hours of operation per year.

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 150.00 * ppmvd @ 15% O2 *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   319.51 lb/hour 1,395.62 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 20 or by calculation based on fuel analysis (ASTM 1552, D1072, D3031, D4084, D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method by the fuel supplier is acceptable to Florida DEP. Testing is to be conducted while the unit is operating within 10% of its rated capacity. Additionally, 40 CFR 60 Subpart GG - NSPS Monitoring requirements will be met, including monitoring the sulfur content of the fuel fired in the turbine.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limit and 40 CFR 60.333. This allowable emissions limit is only applicable during natural gas firing. No. 2 fuel oil with a maximum sulfur content of 0.5% by weight may be burned as an emergency back-up fuel.

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

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 9.97 lb/hour 43.54 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : .024 lbs/MMBtu x 415.3 MMBtu/hr = 9.97 lbs/hr 9.97 lbs/hr x ton/2000lbs x 8736 hrs/yr = 43.54 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Synthetic limit based on 8736 hours of operation per year. Maximum potential VOC emissions occur during combustion of natural gas.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 3
31.6 MW Combined Cycle Gas Turbine Unit # 9

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : OTHER *

3. Requested Allowable Opacity :

Normal Conditions :	15	%
Exceptional Conditions :	20	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :
Visible emissions limit based on current permit limit. As per 62-210.700 (1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	WTF *
2. CMS Requirement :	RULE CMS Requirement Code : +
3. Monitor Information :	Manufacturer : G.E. Model Number : Speedtronic Mark IV Serial Number :
4. Installation Date :	02-Jan-1988
5. Performance Specification Test Date :	09-Nov-1989
6. Continuous Monitor Comment :	Continuous monitoring of the ratio of water to fuel is a requirement of 40 CFR 60.334 and the current air permit.
Performance Specification Test Status :	+
Certification Date (DD-MON-YYYY) :	+

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[X] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[ ] 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?

[ ] 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. If so, emissions unit consumes increment.

[X] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[ ] None of the above apply. If so, 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 :

PM : C	SO2 : C	NO2 : C

4. Baseline Emissions :

PM :	0.0000 lb/hour	0.0000 tons/year
SO2 :	0.0000 lb/hour	0.0000 tons/year
NO2 :		0.0000 tons/year

5. PSD Comment :

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 3

31.6 MW Combined Cycle Gas Turbine Unit # 9

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 5
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	Attachment C
4. Description of Stack Sampling Facilities :	Attachment D
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	ftpcaltm.wk4
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 4

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 16.5 MW Boiler Unit #6 Description of Emissions Unit for AIRS Tracking : + 16.5 MW Boiler Unit #6		
2. Emissions Unit Identification Number : 004 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [ ] Yes [X] No *	5. Emissions Unit Major Group SIC Code : 49 +
6. Emissions Unit Comment : The generating unit has a nameplate rating of 16.5 MW. DEP Emissions Unit Comment : Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Emissions Unit Control Equipment 1

1. Description : Multiple Cyclone
2. Control Device or Method Code : 76 *

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Emissions Unit Details

1. Initial Startup Date :	04-Jan-1958
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Westinghouse	Model Number : 13-A-1685-1
4. Generator Nameplate Rating : 17 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	219	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Rule Applicability Analysis

List of Applicable Regulations

40 CFR 70 - State Operating Permits

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources; except 62-210.550

62-213,FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240,FAC - Ambient Air Quality Standards

62-296.320(4)(b),FAC - General Visible Emission Standards

62-296.320(4)(c),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-297.310,FAC - General Test Requirements

62-297.401, FAC -Compliance Test Methods

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 6 Boiler	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	148	feet
7. Exit Diameter :	5.0	feet
8. Exit Temperature :	325	°F *
9. Actual Volumetric Flow Rate :	42735	acfm
10. Percent Water Vapor :		%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates :		
Zone : East (km) :	North (km) :	
Good Engineering Practice Stack Height : +		
14. Emission Point Comment :		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   Boiler burns natural gas as primary fuel (emissions related to million cubic feet of natural gas burned). Residual fuel oil No. 6 may be burned as an emergency backup fuel (emissions related to 1,000 gallons burned)

2. Source Classification Code (SCC) : 1-01-006-01 *

3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)

4. Maximum Hourly Rate : 0.21	5. Maximum Annual Rate : 1,860.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,031	

10. Segment Comment :

    The sulfur content of natural gas is nil. The annual heat input for Units 6, 7, and 8 is limited to 4,534,930 MM Btu/yr by the current air permit.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   No.6 residual fuel oil burned as secondary fuel (emission related to 1,000 gallons burned). No. 6 fuel oil consumption is limited to a total of 400 hours per year for Units 6, 7, and 8, by the current air permit.

2. Source Classification Code (SCC) : 1-01-004-01 *

3. SCC Units : Thousand Gallons Burned (all liquid fuels)

4. Maximum Hourly Rate : 1.48

5. Maximum Annual Rate : 592.00

6. Estimated Annual Activity Factor :

7. Maximum Percent Sulfur : 0.72
   Percent Sulfur Limit : +

8. Maximum Percent Ash :

9. Million Btu per SCC Unit : 148

10. Segment Comment :

    No. 6 fuel consumption is currently limited by existing air permit to a total of 400 hours per year for Units 6, 7, and 8. The sulfur content of the fuel is limited to 0.8 lbs/MM Btu.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		EL
2 - NOX *	*		EL
3 - PM *	076 *		EL
4 - PM10 *	076 *		NS
5 - SO2 *	*		EL
6 - VOC *	*		EL

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 8.49 lb/hour 37.20 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lb/MMCF +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 40 lb/MMCF x 218.90MMbtu/hr x MMCF/1031MMBtu = 8.49 lbs/hr 8.49 lbs/hr x ton/2000 lbs x 8760 hr/yr = 37.20 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential CO emissions are based on natural gas combustion.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER *
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	40.00 * lbs/MMCF *
Allowable Emissions Unit :	
4. Equivalent Allowable Emissions :	8.50 lb/hour 37.23 tons/year
5. Method of Compliance :	Annual testing in accordance with EPA Method 10, conducted while the unit is operating within 10% of its rated capacity.
Compliance Method Code : +*	Compliance Test Frequency : +*
Fequency Base Date : +	
Regulation : +*	

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on AP - 42 emissions factor (40 lbs/MMCF) for boilers >100 MMBtu/hr firing natural gas. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 116.77 lb/hour 511.47 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lb/MMCF +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 550 lbs/MMCF x 218.90 MMBtu/hr x MMCF/1031 MMBtu = 116.77 lbs/hr 116.77 lbs/hr x ton/2000 lbs x 8760 hr/yr = 511.47 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential NOx emissions are based on natural gas combustion.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	550.00	*	lbs/MMCF	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	116.77	lb/hour	511.47	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 7,7E, conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on AP-42 emissions factor (550 lbs/MMCF) for boilers >100 MMBtu/hr firing natural gas. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *

2. Total Percent Efficiency of Control : %

3. Potential Emissions :
21.89 lb/hour 4.38 tons/year

4. Synthetically Limited?
[X] Yes [ ] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : Air Permit - #7, 8
Unit Code : lb/MMBtu +*

7. Emissions Method Code : 5 *

8. Calculations of Emissions :

0.1 lbs/MMBtu x 218.9 MMBtu/hr = 21.89 lb/hr;
21.89 lbs/hr x 400 hrs/yr x ton/2000 lbs = 4.38 tons/yr

9. Pollutant Potential/Estimated Emissions Comment :

Potential PM emissions are based on existing air permit limits during No. 6 fuel oil combustion for Units 7 and 8. Units 6, 7, and 8 are limited to a combined total of 400 hours per year on No. 6 fuel oil. Therefore, synthetic limit based on 400 hours per year operation on fuel oil.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.40	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	0.40	lb/hour	1.75	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 5, conducted while the unit is operating within 10% of its rated capacity, except that particulate matter tests are waived when burning natural gas provided that the visible emissions do not exceed 5 % opacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on the unit's current permit limit. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 21.89 lb/hour 4.38 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to . tons/year
6. Emissions Factor : Reference : Air Permit - #7, 8 Unit Code : lb/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.1 lbs/MMBtu x 218.9 MMBtu/hr = 21.89 lbs/hr 21.89 lbs/hr x 400 hrs/yr x ton/2000 lbs = 4.38 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential PM-10 emissions based on current PM permit limits for Units 7 and 8 while firing No. 6 fuel oil. All PM is assumed to be PM10. Units 6, 7, and 8 are limited to a combined total of 400 hours per year on No. 6 fuel oil. Therefore, synthetic limit based on 400 hours per year operation on fuel oil.

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 175.12 lb/hour 35.02 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.80 lbs/MMBtu x 218.90 MMBtu/hr = 175.12 lbs/hr (No. 6 Fuel Oil) 175.12 lbs/hr x ton/2000lbs x 400 hrs/yr = 35.02 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential SO2 emissions are based on No. 6 fuel oil combustion and the associated permit limit of 0.80 lbs/MMBtu (400 hours of operation). Synthetic limit based on 400 hours per year operation on fuel oil.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 2.50 * lbs/hr *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   2.50 lb/hour 10.95 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Testing should be conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limits. This allowable emissions limit is only applicable during natural gas firing.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 0.80 * lbs/MMBtu *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   175.12 lb/hour 35.02 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Annual testing to be conducted while the unit is operating within 10% of its rated capacity, to be required only if Units 6, 7, and 8 burn fuel oil for more than 400 hours in a calendar year.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during fuel oil firing.

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

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 1.12 lb/hour 1.30 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.76 lbs/1000gal x 218.90 MMBtu/hr x 1000gal/148MMBtu = 1.12 lbs/hr 0.297 lbs/hr (emission rate while firing natural gas, based on AP-42 emissions factor of 1.4 lbs/MMCF) x ton/2000lbs x 8760 hrs/yr = 1.30 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term VOC emissions are based on No. 6 fuel oil combustion. Potentail annual VOC emission based on natural gas firing 8760 hours per year.

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :		OTHER	*	
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.40	*	lbs/MMCF	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	0.30	lb/hour	1.30	tons/year
5. Method of Compliance : Annual testing in accordance with EPA Method 25A, conducted while the unit is operating within 10% of its rated capacity.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on AP-42 emissions factor (1.4 lbs/MMCF) for boilers >100 MMBtu/hr firing natural gas. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : OTHER *

3. Requested Allowable Opacity :

Normal Conditions :	5	%
Exceptional Conditions :	15	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :
Visible emissions are limited by the current air permit. Visible emissions may not exceed 5% opacity while firing natural gas. Requested exceptional conditions of 15% for 10 minutes per hour to allow for start up, shut down or malfunctions. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
16.5 MW Boiler Unit #6

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	%
Exceptional Conditions :	40	%
Maximum Period of Excess Opacity Allowed :	2	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity (only if fuel oil usage by Units 6, 7, and 8 exceeds 400 hours in any calendar year).

5. Visible Emissions Comment :
Visible emissions are limited by the current air permit and 62-296.405(1)(a), FAC. Visible emissions may not exceed 20% opacity except for one, 2-minute period per hour during which opacity shall not exceed 40%. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] None of the above apply. If so, 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 :		
PM : U	SO2 : U	NO2 : U
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 4

16.5 MW Boiler Unit #6

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 6
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	Attachment C
4. Description of Stack Sampling Facilities :	Attachment D
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	ftpcaltm.wk4
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
NA	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
NA	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
NA	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
NA	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 5

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 33.0 MW Boiler Unit #7 Description of Emissions Unit for AIRS Tracking : + 33.0 MW Boiler Unit #7		
2. Emissions Unit Identification Number : 007 * [ ] No Corresponding ID		[ ] Unknown
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [X] Yes [ ] No *	5. Emissions Unit Major Group SIC Code : 49 +
6. Emissions Unit Comment : DEP Emissions Unit Comment : Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Emissions Unit Control Equipment 1

1. Description : Multipe cyclone for particulate matter control.
2. Control Device or Method Code : 76 *

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Emissions Unit Details

1. Initial Startup Date :	05-Jan-1964
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Brown Boveri	Model Number : Type DSQ2g44
4. Generator Nameplate Rating : 33 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	470	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Rule Applicability Analysis

List of Applicable Regulations

40 CFR 70 - State Operating Permits

40 CFR 72 - Regulations on Permits

40 CFR 73 - SO2 Allowance System

40 CFR 75 - Regulations for CEMs under Acid Rain Requirements

40 CFR 77 - Excess Emissions for Acid Rain Units

40 CFR 78 - Appeal Procedures for Acid Rain Units

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources; except 62-210.550

62-213,FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240,FAC - Ambient Air Quality Standards

62-296.320(4)(b),FAC - General Visible Emission Standards

62-296.320(4)(c),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-296.405(1),FAC - Spec Emiss Limiting & Perf Stds for Existg Foss Fuel Fire Stm Gen >250 MMBtu/hr

62-297.310,FAC - General Test Requirements

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

62-297.401, FAC Compliance Test Methods

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 7 Boiler	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	147	feet
7. Exit Diameter :	7.1	feet
8. Exit Temperature :	308	°F *
9. Actual Volumetric Flow Rate :	145081	acfm
10. Percent Water Vapor :	13.73	%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :		
Good Engineering Practice Stack Height :	+	
14. Emission Point Comment :		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   Boiler burns natural gas as primary fuel (emissions related to million cubic feet burned); No. 6 residual fuel oil may be burned as secondary, emergency fuel (emissions related to 1000 gallons burned).

2. Source Classification Code (SCC) : 1-01-006-01 *

3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)

4. Maximum Hourly Rate : 0.46	5. Maximum Annual Rate : 3,993.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,031	

10. Segment Comment :

    The sulfur content of natural gas is nil. The annual heat input for units 6, 7, and 8, is limited to 4,534,930 MMBtu/yr by the current air permit.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 6 residual oil may be burned as a secondary/emergency fuel (emissions related to 1000 gallons burned); natural gas is burned as the primary fuel.	
2. Source Classification Code (SCC) : 1-01-004-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 3.18	5. Maximum Annual Rate : 1,270.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.72 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 148	
10. Segment Comment : Combustion of No. 6 residual fuel oil is limited by the current air permit to a combined total of 400 hours for Units 6, 7, and 8.	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		EL
2 - NOX *	*		EL
3 - PM *	076 *		EL
4 - PM10 *	076 *		NS
5 - SO2 *	*		EL
6 - VOC *	*		EL

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 15.88 lb/hour 33.24 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 5.0 lbs/1000gal x 470 MMBtu/hr x 1000gal/148MMBtu = 15.88 lbs/hr 7.589 lbs/hr (air permit limit for natural gas combustion) x ton/2000lbs x 8760 hrs/yr = 33.24 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term CO emissions are based on No. 6 fuel oil combustion. Potential annual CO emissions are based on 8760 hours of operations at the existing permit limit for natural gas combustion.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	7.59	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	7.59	lb/hour	33.24	tons/year
5. Method of Compliance : Annual testing in accordance with EPA Method 10, conducted while the unit is operating within 10% of its rated capacity.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).				

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 212.77 lb/hour 457.05 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 67.0 lbs/1000gal x 470.0 MMBtu/hr x 1000gal/148MMBtu = 212.77 lbs/hr 104.35lbs/hr (permit limit for natural gas) x ton/2000lbs x 8760 hrs/yr = 457.05 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term NOx emissions are based on No. 6 fuel oil combustion. Potential annual NOx emissions are based on the existing permit limit for natural gas combustion.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	104.35	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	104.35	lb/hour	457.05	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 7, 7E, conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 47.00 lb/hour 9.40 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.1 lbs/MMBtu x 470MMBtu/hr = 47.0 lbs/hr 47.0 lbs/hr x ton/2000lbs x 400hrs/yr (permit limit) = 9.4 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential PM emissions are based existing air permit limits related to No. 6 fuel oil combustion. Units 6, 7, and 8 are limited to a combined total of 400 hours per year on No. 6 fuel oil. Therefore, synthetic limit based on 400 hours per year operation on fuel oil.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.57	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	0.57	lb/hour	2.49	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 5, conducted while the unit is operating within 10% of its rated capacity, except that particulate matter tests are waived when burning natural gas provided that the visible emissions do not exceed 5 % opacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	47.00	lb/hour	9.40	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 5, conducted while the unit is operating within 10% of its rated capacity, to be required only if Units 6, 7, and 8 burn fuel oil for more than 400 hours in a calendar year.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit and Rule 62-296.405(1)(b), FAC. This allowable emissions limit is only applicable during fuel oil firing.

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 47.00 lb/hour 9.40 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.1 lbs/MMBtu x 470.0 MMBtu/hr = 47.0 lbs/hr 47.0 lbs/hr x ton/2000lbs x 400 hrs/yr (permit limit) = 9.40 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential PM-10 emissions are based on current permit limit for PM related to No. 6 fuel oil combustion. Units 6, 7, and 8 are limited to a combined total of 400 hours per year on No. 6 fuel oil. Therefore, synthetic limit based on 400 hours per year operation on fuel oil.

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 376.00 lb/hour 75.20 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.8 lbs/MMBtu x 470.0 MMBtu/hr = 376.0 lbs/hr 376.0 lbs/hr x ton/2000lbs x 400 hr/yr (permit limit) = 75.2 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions for SO2 are based on the current air permit limit related to No. 6 fuel oil combustion. Units 6, 7, and 8 are limited to a combined total of 400 hours per year on No. 6 fuel oil. Therefore, synthetic limit based on 400 hours per year operation on fuel oil.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	2.50	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	2.50	lb/hour	10.95	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Testing should be conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 0.80 * lbs/MMBtu *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   376.00 lb/hour 75.20 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Annual testing to be conducted while the unit is operating within 10% of its rated capacity, to be required only if Units 6, 7, and 8 burn fuel oil for more than 400 hours in a calendar year.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during fuel oil firing.

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

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 2.41 lb/hour 1.17 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP - 42 Unit Code : lbs/1000 gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 0.76 lbs/1000 gal x 1000 gal/148 MM Btu x 470 MM Btu/hr = 2.41 lbs/hr 0.266 lbs/hr (permit limit on natural gas) x ton/2000lbs x 8760 hrs/yr = 1.17 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term VOC emissions are based on No. 6 fuel oil combustion. Potential annual VOC emissions are based on existing air permit limit for natural gas combustion.

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.27	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	0.27	lb/hour	1.17	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 25A, conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : OTHER *

3. Requested Allowable Opacity :

Normal Conditions :	5	%
Exceptional Conditions :	15	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :

The current air permit limits VE emissions. Visible emissions may not exceed 5% opacity while firing natural gas. Requested exceptional conditions of 15% for 10 mnutes per hour to allow for start up, shut down or malfunctions. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
33.0 MW Boiler Unit #7

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	%
Exceptional Conditions :	40	%
Maximum Period of Excess Opacity Allowed :	2	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity (only if fuel oil usage by Units 6, 7, and 8 exceeds 400 hours in any calendar year).

5. Visible Emissions Comment :
The current air permit and 62-296.405(1)(a), FAC, limits visible emissions. Visible emissions may not exceed 20% opacity when burning No. 6 fuel oil, except for one 2-minute period per hour during which opacity shall not exceed 40%. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] None of the above apply. If so, 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 :		
PM : U	SO2 : U	NO2 : U
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 5

33.0 MW Boiler Unit #7

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 7
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	Attachment C
4. Description of Stack Sampling Facilities :	Attachment D
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	ftpcaltm.wk4
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
Attachment G	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8 +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 6

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : * 56.1 MW Boiler Unit #8 Description of Emissions Unit for AIRS Tracking : + 56.1 MW Boiler Unit #8		
2. Emissions Unit Identification Number : 008 * [ ] No Corresponding ID [ ] Unknown		
3. Emissions Unit Status Code : A *	4. Acid Rain Unit? [X] Yes [ ] No *	5. Emissions Unit Major Group SIC Code : 49 +
6. Emissions Unit Comment : The model number of the unit is unavailable, however, the serial number is 706189. DEP Emissions Unit Comment : Similar-Emissions Unit Identification Numbers for Fee Purposes : 0 +		

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Emissions Unit Details

1. Initial Startup Date :	04-Jan-1976
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer : Delaval	Model Number :
4. Generator Nameplate Rating : 56 MW	
5. Incinerator Information :	
Dwell Temperature :	Degrees Fahrenheit
Dwell Time :	Seconds
Incinerator Afterburner Temperature :	Degrees Fahrenheit
Emissions Unit Type Code : 49 +	
Ozone SIP Base Emissions Unit : +	

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	611	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
24 hours/day	7 days/week

	52 weeks/year	8,760 hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Rule Applicability Analysis

List of Applicable Regulations

40 CFR 60.7 - Notification and Recordkeeping (NSPS)

40 CFR 60.8 - Performance Tests (NSPS)

40 CFR 60.11 - Compliance with Standards and Maintenance Requirements (NSPS)

40 CFR 60.12 - Circumvention (NSPS)

40 CFR 60.13 - Monitoring Requirements (NSPS)

40 CFR 60 - Subpart D - Standards of Performance for Fossil-Fuel-Fired Steam Generators (NSPS)

40 CFR 70 - State Operating Permits

40 CFR 72 - Regulations on Permits

40 CFR 73 - SO2 Allowance System

40 CFR 75 - Regulations for CEMs under Acid Rain Requirements

40 CFR 77 - Excess Emissions for Acid Rain Units

40 CFR 78 - Appeal Procedures for Acid Rain Units

40 CFR 60.19 - General Notification and Reporting Requirements

62-4.001 through 62-4.160,FAC - Permits Part I General

62-4.210,FAC - Construction Permits

62-4.220,FAC - Operation Permit for New Sources

62-103.150,FAC - Public Notice of Application and Proposed Agency Action

62-210,FAC - Stationary Sources

62-212.300,FAC - Sources not Subject to PSD or Nonattainment Requirements

62-213,FAC - Operation Permits for Major Sources of Air Pollution (Title V)

62-204.240,FAC - Ambient Air Quality Standards

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

List of Applicable Regulations

62-296.320(4)(b),FAC - General Visible Emission Standards

62-296.320(4)(c),FAC - Unconfined Emissions of Particulate Matter

62-296.320(2) - General Pollutant Emission Limiting Standards, Objectionable Odors

62-296.405(1),FAC - Spec Emiss Limiting & Perf Stds for Existg Foss Fuel Fire Stm Gen >250 MMBtu/hr

62-297.310,FAC - General Test Requirements

62.297.401, FAC - Compliance Test Methods

62-297.620, FAC - Exceptions and Approvals of Alternative Procedures and Requirements

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	No. 8 Boiler	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit :		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :		
5. Discharge Type Code :	V	
6. Stack Height :	150	feet
7. Exit Diameter :	8.0	feet
8. Exit Temperature :	334	°F *
9. Actual Volumetric Flow Rate :	252011	acfm
10. Percent Water Vapor :	15.66	%
11. Maximum Dry Standard Flow Rate :		dscfm
12. Nonstack Emission Point Height :		feet
13. Emission Point UTM Coordinates :		
Zone : East (km) :	North (km) :	
Good Engineering Practice Stack Height :	+	
14. Emission Point Comment :		

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   Natural gas is burned as primary fuel (emission related to million cubic feet burned); No. 6 fuel oil may be burned as secondary/emergency fuel (emissions related to thousand gallons burned)

2. Source Classification Code (SCC) : 1-01-006-01 *

3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)

4. Maximum Hourly Rate : 0.59

5. Maximum Annual Rate : 4,399.00

6. Estimated Annual Activity Factor :

7. Maximum Percent Sulfur :
   Percent Sulfur Limit : +

8. Maximum Percent Ash :

9. Million Btu per SCC Unit : 1,031

10. Segment Comment :

    The sulfur content of natural gas is nil.
    The current air permit limits the total combined heat input for Units 6, 7, and 8 to less than or equal to 4, 534,930 MMBtu/yr.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :

   No. 6 residual oil may be burned as secondary/emergency fuel (emissions are related to 1000 gallons burned); natural gas is the primary fuel.

2. Source Classification Code (SCC) : 1-01-004-01 *

3. SCC Units : Thousand Gallons Burned (all liquid fuels)

4. Maximum Hourly Rate : 4.13

5. Maximum Annual Rate : 1,651.00

6. Estimated Annual Activity Factor :

7. Maximum Percent Sulfur : 0.72
   Percent Sulfur Limit : +

8. Maximum Percent Ash :

9. Million Btu per SCC Unit : 148

10. Segment Comment :

    The current air permit limits the total No. 6 fuel oil consumption to less than or equal to 400 hours per year for Units 6, 7, and 8. The sulfur content of the fuel is limited to 0.8 lbs/MMBtu.

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - CO *	*		EL
2 - NOX *	*		EL
3 - PM *	*		EL
4 - PM10 *	*		NS
5 - SO2 *	*		EL
6 - VOC *	*		EL

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 20.64 lb/hour 45.30 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 5.0 lbs/1000gal x 611.0 MMBtu/hr x 1000gal/148 MMBtu = 20.64 lbs/hr 45.30 tons/yr (permit limit)
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term CO emissions are based on No. 6 fuel oil combustion. Potential annual CO emissions are based the current air permit which synthetically limits the total annual CO emissions for units 6, 7, and 8.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 1

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 12.59 * lbs/hr *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

12.59	lb/hour	45.30	tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 10, conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limits. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 276.60 lb/hour 622.00 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : AP-42 Unit Code : lbs/1000gal +*
7. Emissions Method Code : 3 *
8. Calculations of Emissions : 67.0 lbs/1000gal x 611.0 MMBtu/hr x 1000gal/148MMbtu = 276.60 lbs/hr 622.0 tons/yr (permit limit)
9. Pollutant Potential/Estimated Emissions Comment : Potential short-term NOx emissions are based on No. 6 fuel oil combustion. Potential annual NOx emissions are based on the current air permit which synthetically limits the total NOx emissions from units 6, 7, and 8.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	173.20	*	.lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	173.20	lb/hour	622.00	tons/year
5. Method of Compliance : Annual testing in accordance with EPA Method 7,7E, conducted while the unit is operating within 10% of its rated capacity.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Allowable emissions request based on current permit limits. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).				

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 61.10 lb/hour 12.22 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.1 lbs/MMBtu x 611.0MMBtu/hr = 61.1 lbs/hr 61.1 lbs/hr x ton/2000lbs x 400hrs/yr = 12.22 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential PM emissions are based on the current air permit limit for No. 6 fuel oil combustion. No. 6 fuel oil may only be burned in Units 6, 7, and 8 as an emergency backup fuel for a total of 400 hours per year. Therefore, synthetic limit based on 400 hours per year operation on No. 6 fuel oil.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code : OTHER *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 0.95 * lbs/hr *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   0.95 lb/hour 3.51 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 5, conducted while the unit is operating within 10% of its rated capacity, except that particulate matter tests are waived when burning natural gas provided that the visible emissions do not exceed 5 % opacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.10	*	lbs/MMBtu	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	61.10	lb/hour	12.22	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 5, conducted while the unit is operating within 10% of its rated capacity, to be required only if Units 6, 7, and 8 burn fuel oil for more than 400 hours in a calendar year.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit, 40 CFR 60.42, and Rule 62-296.405(1)(b), FAC. This allowable emissions limit is only applicable during fuel oil firing.

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 61.10 lb/hour 12.22 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.1 lbs/MMBtu x 611.0 MMBtu/hr = 61.1 lbs/hr 61.1 lbs/hr x ton/2000lbs x 400 hrs/yr (permit limit) = 12.22 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential PM10 emission are based on the current air permit limit for PM while burning No. 6 fuel oil. No. 6 fuel oil may only be burned in Units 6, 7, and 8 as an emergency backup fuel for a total of 400 hours per year. Therefore, synthetic limit based on 400 hours per year operation on No. 6 fuel oil.

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 488.80 lb/hour 97.76 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Air Permit Limit Unit Code : lbs/MMBtu +*
7. Emissions Method Code : 5 *
8. Calculations of Emissions : 0.8 lbs/MMBtu (permit limit) x 611.0 MMBtu/hr = 488.8 lbs/hr 488.80 lbs/hr x ton/2000lbs x 400 hrs/yr(permit limit) = 97.76 tons/yr
9. Pollutant Potential/Estimated Emissions Comment : Potential SO2 emissions are based on the current air permit limit related to No. 6 fuel oil combustion. No. 6 fuel oil may only be burned in Units 6, 7, and 8 as an emergency backup fuel for a total of 400 hours per year. Therefore, synthetic limit based on 400 hours per year operation on No. 6 fuel oil.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	2.50	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	2.50	lb/hour	9.28	tons/year

5. Method of Compliance :
Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Testing should be conducted while the unit is operating within 10% of its rated capacity.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code : RULE *

2. Future Effective Date of Allowable Emissions :

3. Requested Allowable Emissions and Units : 0.80 * lbs/MMBtu *
   Allowable Emissions Unit :

4. Equivalent Allowable Emissions :

   488.80 lb/hour 97.76 tons/year

5. Method of Compliance :
   Annual testing in accordance with EPA Method 6 or 6C or by calculation based in fuel analysis (ASTM 1552, D1072, D3031, D4084, or D3246) for sulfur content of the oil and natural gas. Certified analysis by the appropriate test method from the supplier is acceptable to Florida DEP. Annual testing to be conducted while the unit is operating within 10% of its rated capacity, to be required only if Units 6, 7, and 8 burn fuel oil for more than 400 hours in a calendar year.

Compliance Method Code : +* Compliance Test Frequency : +*

Fequency Base Date : +

Regulation : +*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

   Allowable emissions request based on current permit limit and 40 CFR 60.43. This allowable emissions limit is only applicable during fuel oil firing.

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

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *

2. Total Percent Efficiency of Control : %

3. Potential Emissions :
3.14 lb/hour 1.64 tons/year

4. Synthetically Limited?
[X] Yes [ ] No

5. Range of Estimated Fugitive/Other Emissions:
to tons/year

6. Emissions Factor :
Reference : AP-42
Unit Code : lbs/1000gal +*

7. Emissions Method Code : 3 *

8. Calculations of Emissions :

0.76lbs/1000gal x 611.0MMBtu/hr x 1000gal/148MMBtu= 3.14 lbs/hr
0.441lb/hr (natural gas permit limit) x hr/611.0MMBtu = 0.00072 lbs/MMBtu
0.00072 lbs/MMBtu x 4534930 MMBtu/yr(permit limit) x ton/2000lbs = 1.64 tons/yr

9. Pollutant Potential/Estimated Emissions Comment :

Potential short-term VOC emissions are based on No. 6 fuel oil combustion. Potential annual VOC emissions are based on firing natural gas and the current air permit which synthetically limits the total annual heat input for units 6, 7, and 8 to less than or equal to 4,534,930 MMBtu/yr.

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Pollutant Information Section 6

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.44	*	lbs/hr	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	0.44	lb/hour	1.64	tons/year
5. Method of Compliance : Annual testing in accordance with EPA Method 25A, conducted while the unit is operating within 10% of its rated capacity.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*

6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :

Allowable emissions request based on current permit limit. This allowable emissions limit is only applicable during natural gas firing. Emissions are not limited during No. 6 fuel oil firing (Units 6, 7, and 8 may burn No. 6 fuel oil for up to a combined total of 400 hours per year).

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : OTHER *

3. Requested Allowable Opacity :

Normal Conditions :	5	%
Exceptional Conditions :	15	%
Maximum Period of Excess Opacity Allowed :	10	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :
The current air permit limits visible emission to less than or equal to 5% opacity when burning natural gas. Requested exceptional conditions of 15% for 10 minutes per hour to allow for startup, shutdown, or malfunctions. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
56.1 MW Boiler Unit #8

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

Normal Conditions :	20	%
Exceptional Conditions :	27	%
Maximum Period of Excess Opacity Allowed :	6	min/hour

4. Method of Compliance :

Annual testing in accordance with EPA Method 9, conducted while the source is operating within 10% of the rated capacity.

5. Visible Emissions Comment :

The current air permit and 62-296.405(1)(a), FAC, limits visible emissions to less than or equal to 20% opacity when burning No. 6 fuel oil, except for one six minute period per hour during which opacity shall not exceed 27%. As per 62-210.700(1), FAC, excess emissions during startup, shutdown, or malfunction shall be permitted but in no case exceed two hours in any 24 hour period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code : NOX *
2. CMS Requirement : RULE CMS Requirement Code : +
3. Monitor Information : Manufacturer : Thermo Environmental Model Number : 42D Serial Number : 47986-279
4. Installation Date : 07-Jan-1994
5. Performance Specification Test Date : 11-Jan-1994
6. Continuous Monitor Comment : This NOx monitor meets the requirements of 40 CFR 75 , 40 CFR 60, and current air permit. Use of the old NOx and O2 monitors under 40 CFR 60 has been discontinued
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code : CO2 *
2. CMS Requirement : RULE CMS Requirement Code : +
3. Monitor Information : Manufacturer : Thermo Environmental Model Number : 41H Serial Number : 41H-48183
4. Installation Date : 07-Jan-1994
5. Performance Specification Test Date : 11-Jan-1994
6. Continuous Monitor Comment : CO2 monitor required by 40 CFR 75.
Performance Specification Test Status : +
Certification Date (DD-MON-YYYY) : +

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[ ] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[X] None of the above apply. If so, 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 :

PM : C	SO2 : C	NO2 : U

4. Baseline Emissions :

PM :	0.0000	lb/hour	0.0000	tons/year
SO2 :	0.0000	lb/hour	0.0000	tons/year
NO2 :				tons/year

5. PSD Comment :

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 6

56.1 MW Boiler Unit #8

Supplemental Requirements for All Applications

1. Process Flow Diagram :	Figure 8
2. Fuel Analysis or Specification :	Attachment B
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	Attachment D
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	Attachment E
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	ftpcaltm.wk4
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Attachment F
13. Compliance Assurance Monitoring Plan :	
14. Acid Rain Application (Hard-copy Required) :	
Attachment G	Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))
	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 7

(1) Cooling Tower +

Type of Emissions Unit Addressed in This Section

1. Regulated or Unregulated Emissions Unit? Check one :

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

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

2. Single Process, Group of Processes, or Fugitive Only? Check one :

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

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

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

Emissions Unit Information Section 7

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

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : *
(1) Cooling Tower

Description of Emissions Unit for AIRS Tracking : +
(1) Cooling Tower

2. Emissions Unit Identification Number : No *
[ ] No Corresponding ID [ ] Unknown

3. Emissions Unit Status	4. Acid Rain Unit?	5. Emissions Unit Major
Code : A *	[ ] Yes [X] No *	Group SIC Code : 49 +

6. Emissions Unit Comment :
(1) Cooling Tower for Unit #8

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
0 +

C. EMISSIONS UNIT DETAIL INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
(1) Cooling Tower

Emissions Unit Details

1. Initial Startup Date :
2. Long-term Reserve Shutdown Date :
3. Package Unit : Manufacturer : Model Number :
4. Generator Nameplate Rating : MW
5. Incinerator Information : Dwell Temperature : Degrees Fahrenheit Dwell Time : Seconds Incinerator Afterburner Temperature : Degrees Fahrenheit Emissions Unit Type Code : 49 + Ozone SIP Base Emissions Unit : +

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule :	
hours/day	days/week

	weeks/year	hours/year

D. EMISSIONS UNIT REGULATIONS
(Regulated Emissions Units Only)

Emissions Unit Information Section 7
(1) Cooling Tower

Rule Applicability Analysis

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 7

(1) Cooling Tower

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	
2. Emission Point Type Code : *	
3. Descriptions of Emission Points Comprising this Emissions Unit :	
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	
5. Discharge Type Code :	
6. Stack Height :	feet
7. Exit Diameter :	feet
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 :	feet
13. Emission Point UTM Coordinates : Zone : East (km) : North (km) :	
Good Engineering Practice Stack Height : +	
14. Emission Point Comment :	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 7

(1) Cooling Tower

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Cooling Tower	
2. Source Classification Code (SCC) : 3-85-001-01 *	
3. SCC Units : Thousand Gallons Processed	
4. Maximum Hourly Rate : 2,634.00	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit :	
10. Segment Comment : 63,216 thousand gal/day	

G. EMISSIONS UNIT POLLUTANTS
(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section 7
(1) Cooling Tower

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
1 - PM *	*		NS
2 - PM10 *	*		NS

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

Emissions Unit Information Section 7
(1) Cooling Tower

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment :

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

Emissions Unit Information Section 7
(1) Cooling Tower

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment :

K. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 7

(1) Cooling Tower

PSD Increment Consumption Determination

1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

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

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.

[X] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[ ] 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?

[ ] 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. If so, emissions unit consumes increment.

[ ] 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 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.

[ ] 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. If so, baseline emissions are zero, and emissions unit consumes increment.

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

[ ] None of the above apply. If so, 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 :		
PM : C	SO2 :	NO2 :
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 7

(1) Cooling Tower

Supplemental Requirements for All Applications

1. Process Flow Diagram :
2. Fuel Analysis or Specification :
3. Detailed Description of Control Equipment :
4. Description of Stack Sampling Facilities :
5. Compliance Test Report :
6. Procedures for Startup and Shutdown :
7. Operation and Maintenance Plan :
8. Supplemental Information for Construction Permit Application :
9. Other Information Required by Rule or Statue :

Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :
11. Alterntive Modes of Operation (Emissions Trading) :

12. Identification of Additional Applicable Requirements :
13. Compliance Assurance Monitoring Plan :
14. Acid Rain Application (Hard-copy Required) : Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) New Unit Exemption (Form No. 62-210.900(1)(a)2.) Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

FORT PIERCE UTILITIES AUTHORITY POWER PLANT
Precautions to Prevent Emissions of Unconfined Particulate Matter

The only potential source of unconfined particulate emissions is from vehicular traffic. Precautions to prevent and control unconfined emissions consist of paved fuel delivery roads and parking lots.

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FORT PIERCE UTILITIES AUTHORITY POWER PLANT
LIST OF INSIGNIFICANT ACTIVITIES/UNITS

ACTIVITY/UNIT	RATIONALE FOR INSIGNIFICANCE
I.C. Engine - ~10 hp gasoline fired pump	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
I.C. Engine - ~10 hp gasoline fired pump	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
I.C. Engine - ~ 5 hp gasoline fired pump	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
I.C. Engine - 65 hp MWM Murphy diesel pump	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
I.C. Engine - ~16 hp gas powered portable welder	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
I.C. Engine - 11 hp gasoline fired power washer	Exempt pursuant to Rule 62-210.300(3)(a)20., FAC
No. 2 Fuel Oil Storage Tank #5 - 630,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 1036 lbs/yr
Diesel Fuel Storage Tank - 65,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 275 lbs/yr
No. 6 Fuel Oil Storage Tank #6 - 945,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 5 lbs/yr
No. 6 Fuel Oil Storage Tank #7 - 945,000 gallons	Exempt pursuant to Rule 62-213.430(6), FAC; Potential VOC emissions 10 lbs/yr
Waste Oil Storage Tank	Exempt pursuant to Rule 62-213.430(6), FAC
Compressed nitrogen bottles	Exempt pursuant to Rule 62-213.430(6), FAC; No emissions
Storage & use of chemicals solely for water treatment	Exempt pursuant to Rule 62-213.430(6), FAC
55 gallon drum trichloroethylene and Perchloroethylene	Exempt pursuant to Rule 62-213.430(6), FAC
Lube Oil Storage Area	Exempt pursuant to Rule 62-213.430(6), FAC; Oil stored in closed 55 gallon drums; No emissions
Parts Washer (aliphatic hydrocarbon solvent)	Exempt pursuant to Rule 62-210.300(3)(a)24., FAC
Miscellaneous painting activities	Exempt pursuant to Rule 62-210.300(3)(a)22., FAC
Miscellaneous welding activities	Exempt pursuant to Rule 62-210.300(3)(a)16., FAC
Oil/Water Separator	Exempt pursuant to Rule 62-213.430(6), FAC; Very low vapor pressures, no emissions

FORT PIERCE POWER PLANT
List of Equipment/Activities Regulated under Title VI

Equipment that contains more than 50 lbs of charge of any Class I or Class II ozone-depleting substance regulated under Title VI of the CAA:

1) Office Air Conditioner - York 30 tons, contains 180 lbs R22

FORT PIERCE UTILITIES AUTHORITY
ALTERNATIVE METHODS OF OPERATION - UNITS 6 THROUGH 9

UNIT 6

Alternative Method #1: Unit 6 will fire 100 percent natural gas

Alternative Method #2: Unit 6 will fire 100 percent residual No. 6 fuel oil

Alternative Method #3: All units will fire a mixture of Natural Gas and Fuel oil Normally in 25% increments.

UNIT 7

Alternative Method #1: Unit 7 will fire 100 percent natural gas

Alternative Method #2: Unit 7 will fire 100 percent residual No. 6 fuel oil

Alternative Method #3: All units will fire a mixture of Natural Gas and Fuel oil Normally in 25% increments.

UNIT 8

Alternative Method #1: Unit 8 will fire 100 percent natural gas

Alternative Method #2: Unit 8 will fire 100 percent residual No. 6 fuel oil

Alternative Method #3: All units will fire a mixture of Natural Gas and Fuel oil Normally in 25% increments.

UNIT 9

Alternative Method #1: Unit 9 will fire 100 percent natural gas

Alternative Method #2: Unit 9 will fire 100 percent distillate No. 2 fuel oil

Alternative Method #3: All units will fire a mixture of Natural Gas and Fuel oil Normally in 25% increments.

FORT PIERCE UTILITIES AUTHORITY POWER PLANT
Compliance Report and Plan

Each emissions unit (diesel units 1&2, boilers 6, 7 & 8, and combined cycle unit 9) is in full compliance with each applicable federal, state and local regulation, as detailed under Subsection III-B. Emissions Unit Regulations and with all additional applicable requirements (compliance with current operating permits No. AO 56-175955 and AO 56-190275) as detailed under Subsection III-B. Emissions Unit Supplemental Information.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official :

Name : Thomas W. Richards
Title : Director of Operations

2. Owner or Authorized Representative or Responsible Official Mailing Address :

Organization/Firm : Fort Pierce Utilities Authority
Street Address : P.O. Box 3191
City : Fort Pierce
State : FL Zip Code : 34948-____

3. Owner/Authorized Representative or Responsible Official Telephone Numbers :

Telephone : (407)466-1600 Fax : (407)465-6984

4. Owner/Authorized Representative 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 statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions units.*

Signature

2/19/97
Date

* Attach letter of authorization if not currently on file.