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 : City of Gainesville, GRU	
2. Site Name : J. R. Kelly Generating Station	
3. Facility Identification Number : 0010005	* [ ] Unknown
4. Facility Location : J. R. Kelly Generating Station City of Gainesville, Gainesville Regional Utilities (GRU) Gainesville, FL 32601 Street Address or Other Locator : 605 SE 3rd Street City : Gainesville County : Alachua	Zip Code : 32601-
5. Relocatable Facility? [ ] Yes [X] No	6. Existing Permitted Facility? [X] Yes [ ] No

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 : Michael L. Kurtz
Title : General Manager

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

Organization/Firm : City of Gainesville, GRU
Street Address : P.O. Box 147117 (A134)
City : Gainesville
State : FL Zip Code : 32614-7117

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

Telephone : (352)334-2811 Fax : (352)334-2277

4. Owner/Authorized Representative or Responsible Official Statement :

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

_____ _____

Signature Date

* Attach letter of authorization if not currently on file.

Scope of Application

Emissions Unit ID		Description of Emissions Unit		Permit Type
001	*	Combustion Turbine No. 1	+	
002	*	Combustion Turbine No. 2	+	
003	*	Combustion Turbine No. 3	+	
006	*	Steam Generating Unit No. 6	+	
007	*	Steam Generating Unit No. 7	+	
008	*	Steam Generating Unit No. 8	+	

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 ob

[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.

Category IV : All Non-Federally Enforceable Air Operation

This Application for Air Permit is submitted to ob

[ ] Initial air operation permit for one or more existing, but previously unpermitted, emissions units.

[ ] Initial air operation permit for one or more newly constructed or modified

Current construction permit number :

[ ] Air operation permit revision to address one or more newly constructed or modified emissions units.

Current construction permit number :

Operation permit to be revised :

[ ] Air operation permit renewal.

Operation permit to be renewed :

Application Processing Fee

Check one :

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

Construction/Modification Information

1. Description of Proposed Project or Alterations : City of Gainesville power plant. Facility ID # 0010005
2. Projected or Actual Date of Commencement of Construction :
3. Projected Date of Completion of Construction :

Professional Engineer Certification

1. Professional Engineer Name : Thomas W. Davis Registration Number : 36777
2. Professional Engineer Mailing Address : Organization/Firm : ECT, Inc. Street Address : 3701 NW 98th Street City : Gainesville State : FL Zip Code : 32606-5004
3. Professional Engineer Telephone Numbers : Telephone : (352)332-0444 Fax : (352)332-6722

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 : X1284

Name : Yolanta Jonynas
Title : Senior Environmental Engineer

2. Application Contact Mailing Address :

Organization/Firm : City of Gainesville, GRU
Street Address : P.O. Box 147117 (A136)
City : Gainesville
State : FL Zip Code : 32614-7117

3. Application Contact Telephone Numbers :

Telephone : (352)334-3400 Fax : (352)334-3151

Application Comment

Initial Title V permit application for the City of Gainesville, Gainesville Regional Utilities (GRU) J.F. Kelly Generating Station.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates :
   Zone : 17 East (km) : 372.00 North (km) : 3280.20

2. Facility Latitude/Longitude :
   Latitude (DD/MM/SS) : 29:38:48 Longitude (DD/MM/SS) : 82:19:19

3. Governmental Facility Code :	4. Facility Status Code :	5. Facility Major Group SIC Code :	6. Facility SIC(s) :
4	A	49 +	

7. Facility Comment :

N/A

DEP Facility Comment

+

Facility Contact

1. Name and Title of Facility Contact :

Yolanta Jonynas
Senior Environmental Engineer

2. Facility Contact Mailing Address :
   Organization/Firm : City of Gainesville, GRU
   Street Address : P.O. Box 147117 (A136)
   City : Gainesville State : FL Zip Code : 32614-7117

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II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility, Location, and Type

1. Facility UTM Coordinates : Zone : East (km) : North (km) :			
2. Facility Latitude/Longitude : Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :			
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 : Yolanta Jonynas
Title : Senior Environmental Engineer

2. Facility Contact Mailing Address :

Organization/Firm : City of Gainesville, GRU
Street Address : P.O. Box 147117 (A136)
City : Gainesville
State : FL Zip Code : 32614-7117

3. Facility Contact Telephone Numbers :

Telephone : (352)334-3400 Fax : (352)334-3151

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)?	Y
7. Synthetic Minor Source of HAPs?	N
8. One or More Emissions Units Subject to NSPS?	N
9. One or More Emission Units Subject to NESHAP?	N
10. Title V Source by EPA Designation?	N
11. Facility Regulatory Classifications Comment : N/A	
Ozone SIP Facility :	+
Annual Operating Report Required :	+

B. FACILITY REGULATIONS

List of Applicable Regulations

See Appendix A

C. FACILITY POLLUTANTS

Facility Pollutant Information

1. Pollutant Emitted	2. Pollutant Classification
NOX	A
SO2	A
PM10	A
PM	A
H107 HF	A
H106 HCl	A
CO	A

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 1

1. Pollutant Emitted NOX

2. Requested Emissions Cap :

(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 2

1. Pollutant Emitted SO2
:

2. Requested Emissions Cap :

(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 3

1. Pollutant Emitted PM10
:

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 4

1. Pollutant Emitted PM
:

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 5

1. Pollutant Emitted H107
:

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Hydrogen Fluoride - Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 6

1. Pollutant Emitted H106
:

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Hydrogen Chloride - Facility potential emissions exceed major source threshold.

D. FACILITY POLLUTANT DETAIL INFORMATION

Facility Pollutant Information Pollutant 7

1. Pollutant Emitted CO
:

2. Requested Emissions Cap :
(lbs/hour) (tons/year)

3. Basis for Emissions Cap
Code :

4. Facility Pollutant Comment :

Facility potential emissions exceed major source threshold.

E. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements for All Applications

1. Area Map Showing Facility Location :	II.E.1
2. Facility Plot Plan :	II.E.2
3. Process Flow Diagram(s) :	II.E.3
4. Precautions to Prevent Emissions of Unconfined Particulate Matter :	II.E.4
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 :	II.E.7
8. List of Equipment/Activities Regulated under Title VI :	II.E.8
9. Alternative Methods of Operation :	NA
10. Alternative Modes of Operation (Emissions Trading) :	NA
11. Identification of Additional Applicable Requirements :	Appendix A
12. Compliance Assurance Monitoring Plan :	NA
13. Risk Management Plan Verification :	NA
14. Compliance Report and Plan :	II.E.14
15. Compliance Certification (Hard-copy Required) :	II.E.15

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 1

Combustion Turbine No. 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 : * Combustion Turbine No. 1 Description of Emissions Unit for AIRS Tracking : + Combustion Turbine No. 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 : +		

Emissions Unit Information Section 1

Combustion Turbine No. 1

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 1

Combustion Turbine No. 1

Emissions Unit Details

1. Initial Startup Date :	02/68
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer :	Model Number :
4. Generator Nameplate Rating :	16 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 1

Combustion Turbine No. 1

Rule Applicability Analysis

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 1

Combustion Turbine No. 1

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 :

From permit

max heat input is 200 MMBTU/hr

LHV for Natural Gas

range 900 - 1100

application provide 1040

$$\text{Max. Hr. rate} = \frac{\text{Max capacity}}{\text{fuel heat input}} = \frac{200}{1040} \frac{\text{mmbtu}}{\text{hr}} \cdot \frac{\text{scc unit}}{\text{mmbtu}}$$

$$= .192 \frac{\text{scc unit}}{\text{hr}}$$

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Combustion Turbine No. 1

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas burned in Combustion Turbine No. 1	
2. Source Classification Code (SCC) : 2-01-002-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.19	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 : 1,040 allowed	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 200 MMBtu/hr. Fuel heat content (Field 9) is a nominal value.	

$$\text{Max. hr rate} = \frac{\text{Max capacity}}{\text{fuel heat input}} = \frac{207 \ \frac{\text{MMBTU}}{\text{hr}}}{140 \ \frac{\text{MMBTU}}{\text{scc}}} \cdot \frac{\frac{1}{\text{hr}}}{\frac{\text{scc}}{1}}$$

$$= 1.47 \ \frac{\text{scc}}{\text{hr}}$$

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 1

Combustion Turbine No. 1

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 fuel oil burned in Combustion Turbine No. 1	
2. Source Classification Code (SCC) : 2-01-001-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.48	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash : 0.10
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 207 MMBtu/hr. Fuel heat content (Field 9) is a nominal value.	

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

Emissions Unit Information Section 1

Combustion Turbine No. 1

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
8 - SO2 *	*		NS
1 - CO *	*		NS
2 - NOX *	*		NS
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - VOC *	*		NS
6 - H106 *	*		NS
7 - H107 *	*		NS

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1

Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 3

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 4

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **VOC** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1

Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **H106** *
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 : Hydrogen Chloride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H107** *
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 : Hydrogen Fluoride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1
Combustion Turbine No. 1

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **SO2** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 1

Combustion Turbine No. 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

Combustion Turbine No. 1

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.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 2

Combustion Turbine No. 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 : * Combustion Turbine No. 2 Description of Emissions Unit for AIRS Tracking : + Combustion Turbine No. 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 : +		

Emissions Unit Information Section 2

Combustion Turbine No. 2

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

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 : Dwell Time : Incinerator Afterburner Temperature :	Degrees Fahrenheit Seconds 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 2

Combustion Turbine No. 2

Rule Applicability Analysis

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 2

Combustion Turbine No. 2

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 2

Combustion Turbine No. 2

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas burned in Combustion Turbine No. 2	
2. Source Classification Code (SCC) : 2-01-002-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.19	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 : 1,040	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 200 MMBtu/hr. Fuel heat content (Field 9) is a nominal value.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 2

Combustion Turbine No. 2

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 fuel oil burned in Combustion Turbine No. 2	
2. Source Classification Code (SCC) : 2-01-001-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.48	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash : 0.10
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 207 MMBtu/hr Fuel heat content (Field 9) is a nominal value.	

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

Emissions Unit Information Section 2

Combustion Turbine No. 2

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
8 - SO2 *	*		NS
1 - CO *	*		NS
2 - NOX *	*		NS
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - VOC *	*		NS
6 - H106 *	*		NS
7 - H107 *	*		NS

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2

Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 3

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 4

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2

Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **VOC** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **H106** *
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 : Hydrogen Chloride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H107** *
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 : Hydrogen Fluoride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2
Combustion Turbine No. 2

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **SO2** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 2

Combustion Turbine No. 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

Combustion Turbine No. 2

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.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 3

Combustion Turbine No. 3

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 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 : *
Combustion Turbine No. 3

Description of Emissions Unit for AIRS Tracking : +
Combustion Turbine No. 3

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 :

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
+

Emissions Unit Information Section 3

Combustion Turbine No. 3

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 3

Combustion Turbine No. 3

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 : Dwell Time : Incinerator Afterburner Temperature :	Degrees Fahrenheit Seconds 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 3

Combustion Turbine No. 3

Rule Applicability Analysis

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 3

Combustion Turbine No. 3

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 3

Combustion Turbine No. 3

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas burned in Combustion Turbine No. 3	
2. Source Classification Code (SCC) : 2-01-002-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.19	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 : 1,040	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 200 MMBtu/hr. Fuel heat content (Field 9) is a nominal value.	

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3

Combustion Turbine No. 3

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
8 - SO2 *	*		NS
1 - CO *	*		NS
2 - NOX *	*		NS
3 - PM *	*		NS
4 - PM10 *	*		NS
5 - VOC *	*		NS
6 - H106 *	*		NS
7 - H107 *	*		NS

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
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 : Potential emissions exceed threshold amount - no emission limits.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 3

Combustion Turbine No. 3

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 2 fuel oil burned in Combustion Turbine No. 3	
2. Source Classification Code (SCC) : 2-01-001-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.48	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.50 Percent Sulfur Limit : +	8. Maximum Percent Ash : 0.10
9. Million Btu per SCC Unit : 140	
10. Segment Comment : Maximum hourly and annual rates (Fields 4 and 5) based on base load conditions at 80oF, 14.7 psia, and fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) based on heat input of 207 MMBtu/hr. Fuel heat content (Field 9) is a nominal value.	

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 3

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 4

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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **VOC** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **H106** *
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 : Hydrogen Chloride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H107** *
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 : Hydrogen Fluoride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3
Combustion Turbine No. 3

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **SO2** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 3

Combustion Turbine No. 3

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 3

Combustion Turbine No. 3

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.)

III. EMISSIONS UNIT INFORMATION

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

Emissions Unit Information Section 4

Steam Generating Unit No. 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 : *
Steam Generating Unit No. 6

Description of Emissions Unit for AIRS Tracking : +
Steam Generating Unit No. 6

2. Emissions Unit Identification Number : 006 *
[ ] 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 :
Unit in cold-standby.

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
+

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Emissions Unit Details

1. Initial Startup Date :	
2. Long-term Reserve Shutdown Date :	01-Aug-1989
3. Package Unit : Manufacturer :	Model Number :
4. Generator Nameplate Rating :	19 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 :	187	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment : Generator nameplate rating is 18.75 MW at a 0.85 power factor. Maximum heat input rate is 187.3 MMBtu/hr.			

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

Steam Generating Unit No. 6

Rule Applicability Analysis

N/A

Emissions Unit Information Section 4

Steam Generating Unit No. 6

List of Applicable Regulations

Reference Appendix A

$$39 \frac{ft}{s} \frac{m}{3.28\,ft}$$

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	JRK-6	
2. Emission Point Type Code :	1 *	
3. Descriptions of Emission Points Comprising this Emissions Unit : N/A		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : N/A		
5. Discharge Type Code :	V	
6. Stack Height :	120	feet
7. Exit Diameter :	6.0	feet
8. Exit Temperature :	350	°F *
9. Actual Volumetric Flow Rate :	54000	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 :

Fields 8 and 9 taken from January 1974 permit application.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 6 Fuel Oil burned in Steam Generating Unit No. 6.	
2. Source Classification Code (SCC) : 1-01-004-01 (01 ELECTRIC GENERATION NOT INDUSTRIAL) *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.25	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 1.50 Percent Sulfur Limit : +	8. Maximum Percent Ash : 0.05
9. Million Btu per SCC Unit : 150	
10. Segment Comment : Maximum hourly rate (Field 4 - 1,248.7 gal/hr) based on heat input of 187.3 MMBtu/hr and a nominal oil heat content of 150,000 Btu/gal. Maximum percent sulfur (Field 7) per fuel specification and BACT determination dated 10/9/91. Actual analysis may be slightly higher than shown due to pre-BACT oil remaining in tank. Maximum percent ash (Field 8) is 0.05.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural gas burned in Steam Generating Unit No. 6. 01 Electric Generation non-transportation?	
2. Source Classification Code (SCC) : 1-01-006-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.18	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 : 1,040	
10. Segment Comment : Maximum hourly rate (Field 4 - 0.18 MMft3/hr) based on heat input of 187.3 MMBtu/hr and a nominal natural gas heat content of 1,040 Btu/ft3.	

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

Emissions Unit Information Section 4

Steam Generating Unit No. 6

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 *	*		EL
4 - PM10 *	*		NS
5 - SO2 *	*		EL
6 - VOC *	*		NS
7 - H107 *	*		NS
8 - H106 *	*		NS

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
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 : *Potential emissions exceeds threshold amount - no emission limits.*

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
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 : Potential emissions exceeds threshold amount - no emission limits.

3. $187.3 \frac{MMBTU}{hr} \cdot \frac{.3 lb}{MMBTU} = 56.19 \frac{lbs}{hr}$

$\cdot \frac{3\ lb}{2000\ lb} \frac{T}{MMBTU} \; 187.3 \frac{MMBTU}{hr} \frac{3\ hrs}{day} \frac{365\ day}{yr} +$

$\frac{.1203\ lb\ T}{2000\ lb\ MMBTU} \; 187.3 \frac{MMBTU}{hr} \frac{21\ hrs}{day} \frac{365\ day}{yr} = 117.15 \frac{T}{yr}$

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 56.19 lb/hour 117.12 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : 0 *
8. Calculations of Emissions : N/A
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion No. 6 fuel oil (worst case fuel). Hourly potential emission rate based on 0.3 lb/MMBtu allowable during soot blowing and load changes. Annual potential emission rate based on composite allowable limit of 0.1428 lb/MMBtu (0.3 lb/MMBtu for 3 hrs/dy and 0.1203 lb/MMBtu for 21 hrs/dy).

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Pollutant Information Section 3 PM

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	*			*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	22.53	lb/hour	98.68	tons/year
5. Method of Compliance : None req'd per Rule 62-297.310(7)(a)4.b., F.A.C. (< 100 tpy)				
Compliance Method Code :	**	Compliance Test Frequency :		**
Fequency Base Date :	+			
Regulation :				**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.406(2), F.A.C. (BACT). Applicable during steady state operations and combustion of No. 6 fuel oil.				

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Pollutant Information Section 3 PM

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.30	*	lb/MMBtu	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	56.19	lb/hour	30.76	tons/year
5. Method of Compliance : None req'd per Rule 62-297.310(7)(a)4.b., F.A.C. (< 100 tpy)				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*

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

Rule 62-210.700((3), F.A.C.
Applicable during combustion of No. 6 fuel oil.
Applicable for up to 3 hrs in any 24-hour period during soot blowing and load changes.

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

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 4

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 : Potential emissions exceeds threshold amount - no emission limits.

Potential Emissions:

$$1.25 \; \frac{1000 \text{ gal}}{\text{hr}} \; \frac{8.053 \text{ lb}}{\text{gal}} \; 2 \; (.015) = \boxed{301.98 \; \frac{\text{lb}}{\text{hr}}}$$

SCC number.

$$= 1322.7 \; \frac{\text{Tons}}{\text{yr}}$$

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

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 301.88 lb/hour 1,322.26 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : 0 *
8. Calculations of Emissions : N/A
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Pollutant Information Section 5 SO_2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	1.50	*	wt % S	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	301.88	lb/hour	1,322.26	tons/year
5. Method of Compliance :				
Fuel analysis and calculations.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Rule 62-296.406(3), F.A.C. (BACT)				

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
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 : Potential emissions exceeds threshold amount - no emission limits.

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H107** *
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 : Hydrogen Fluoride: potential emissions exceeds threshold amount - no emission limits.

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

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **H106** *
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 : Hydrogen Chloride: potential emissions exceeds threshold amount - no emission limits.

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Steam Generating Unit No. 6

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 :	40	%	
Maximum Period of Excess Opacity Allowed :	2	min/hour	

4. Method of Compliance :

Option to use either FDEP or EPA Reference Method 9

5. Visible Emissions Comment :

Rule 62-296.406(1), F.A.C. and Permit AO01-195854 Specific Condition No. 4.
Applicable during steady state operations.
Test not required if fuel oil is is not burned, other than during startup, for a total of more than 400 hours per federal fiscal year per Rule 62-297.310(7)(a)5., F.A.C.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype : S *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

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

4. Method of Compliance :

Option to use either FDEP or EPA Reference Method 9

5. Visible Emissions Comment :

Rule 62-210.700(3), F.A.C. and Permit AO01-195854 Specific Condition No. 4.
Applicable for up to 3 hours in any 24 hour period during soot blowing and load changes.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4
Steam Generating Unit No. 6

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	S *	
2. Basis for Allowable Opacity :	*	
3. Requested Allowable Opacity :		
Normal Conditions :		%
Exceptional Conditions :	100	%
Maximum Period of Excess Opacity Allowed :	60	min/hour
4. Method of Compliance :		
5. Visible Emissions Comment : Rule 62-210.700(2), F.A.C. Applicable during startups and shutdowns.		
Compliance Test Frequency :	0 +	Frequency Base Date : +
COM Required :	+	
Regulation :	+*	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype :	*
2. Basis for Allowable Opacity :	*
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hrs in any 24-hr period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 4

Steam Generating Unit No. 6

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : *

3. Requested Allowable Opacity :

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

4. Method of Compliance :

5. Visible Emissions Comment :

Rule 62-210.700(1)., F.A.C.
Excess emissions resulting from startup, shutdown or malfunction are allowed for up to 2 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

Steam Generating Unit No. 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

Steam Generating Unit No. 6

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.E.3
2. Fuel Analysis or Specification :	III.L.2
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 :	III.L.6
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 :	III.L.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Appendix A
13. Compliance Assurance Monitoring Plan :	III.L.13

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

Steam Generating Unit No. 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 : *
Steam Generating Unit No. 7

Description of Emissions Unit for AIRS Tracking : +
Steam Generating Unit No. 7

2. Emissions Unit Identification Number : 007 *
[ ] 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 :
N/A

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
+

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Emissions Unit Details

1. Initial Startup Date :	
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer :	Model Number :
4. Generator Nameplate Rating : 25 MW	
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature : Emissions Unit Type Code : 49 +	 Degrees Fahrenheit Seconds Degrees Fahrenheit

Ozone SIP Base Emissions Unit : +

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate : 272	mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :		
4. Maximum Production Rate :		
5. Operating Capacity Comment :		

Generator nameplate rating is 25 MW at a 0.85 power factor.
Maximum heat input rate shown is for natural gas combustion
Maximum heat input rate is 249 MMBtu/hr (voluntary derate) for No. 6 fuel oil combustion.

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

Steam Generating Unit No. 7

Rule Applicability Analysis

N/A

List of Applicable Regulations

Reference Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	JRK-7	
2. Emission Point Type Code :	2 *	
3. Descriptions of Emission Points Comprising this Emissions Unit : N/A		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Unit No. 7 and Unit No. 8		
5. Discharge Type Code :	V	
6. Stack Height :	200	feet
7. Exit Diameter :	10.5	feet
8. Exit Temperature :	337	°F *
9. Actual Volumetric Flow Rate :	207750	acfm (could be an error)
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 :

Fields 8 and 9 taken from January 1974 permit application.

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 6 Fuel Oil burned in Steam Generating Unit No. 7.	
2. Source Classification Code (SCC) : 1-01-004-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 1.66	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 1.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 150	
10. Segment Comment : Maximum hourly rate (Field 4 - 1,660.0 gal/hr) based on heat input of 249 MMBtu/hr and a nominal oil heat content of 150,000 Btu/gal. Maximum percent sulfur (Field 7) per fuel specification and BACT determination dated 10/9/91. Actual analysis may be slightly higher than shown due to pre-BACT oil remaining in tank. Maximum percent ash (Field 8) is 0.05. No. 6 fuel fuel oil may also be supplemented with on-specification used oil.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural Gas burned in Steam Generating Unit No. 7.	
2. Source Classification Code (SCC) : 1-01-006-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.26	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 : 1,040	
10. Segment Comment : Maximum hourly rate (Field 4 - 0.262 MMft3/hr) based on heat input of 272 MMBtu/hr and a nominal natural gas heat content of 1,040 Btu/ft3.	

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

Emissions Unit Information Section 5

Steam Generating Unit No. 7

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 *	*		EL
4 - PM10 *	*		NS
5 - SO2 *	*		EL
6 - VOC *	*		NS
7 - H107 *	*		NS
8 - H106 *	*		NS

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
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 : Potential emissions exceed threshold amount - no emission limits.

Pot. emission

$$\frac{.31\text{ lb}}{\text{mmBtu}} \cdot \frac{1095\text{ hr}}{\text{yr}} \cdot \frac{249\text{ mmBTu}}{\text{hr}} \cdot \frac{\text{T}}{2000\text{ lb}} + \frac{.1186\text{ lb}}{\text{mmBTu}} \cdot \frac{21\text{ hrs}}{\text{day}} \left(\frac{365\text{ days}}{\text{yr}}\right) \frac{249\text{ mmBtu}}{\text{hr}} = 154.07 \text{ TPY}$$

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

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 74.70 lb/hour 154.03 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : 0 *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion No. 6 fuel oil (worst case fuel). Hourly potential emission rate based on 0.3 lb/MMBtu allowable during soot blowing and load changes. Annual potential emission rate based on composite allowable limit of 0.1412 lb/MMBtu (0.3 lb/MMBtu for 3 hrs/dy and 0.1186 lb/MMBtu for 21 hrs/dy).

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 4

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 : Potential emissions exceed threshold amount - no emission limits.

Pot. emissions

$$1.66 \frac{1000\ gal}{hr} \quad \frac{8.053\ lb}{gal} \quad 2(.015) = 401.03 \frac{lb}{hr}$$

$$= 1756.51\ TPY$$

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 395.60 lb/hour 1,732.73 tons/year
4. Synthetically Limited? [X] Yes [ ] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : 0 *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
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 : Lb/ +*
7. Emissions Method Code : *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H107** *
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 : Lb/ +*
7. Emissions Method Code : *
8. Calculations of Emissions :
9. Pollutant Potential/Estimated Emissions Comment : Hydrogen Fluoride: potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **H106** *
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 : Hydrogen Chloride - potential emissions exceed threshold amount - no emission limits.

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	*			*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	29.52	lb/hour	129.30	tons/year
5. Method of Compliance : None required per Permit AO01-224217.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.406(2), F.A.C. (BACT). Applicable during steady state operations and combustion of No. 6 fuel oil.				

Emissions Unit Information Section 5

Steam Generating Unit No. 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 :	0.30	*	lb/MMBtu	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	74.70	lb/hour	40.90	tons/year
5. Method of Compliance : None required per Permit AO01-224217.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :				
Rule 62-210.700(3), F.A.C. Applicable during combustion of No. 6 fuel oil. Applicable for up to 3 hrs in any 24-hour period during soot blowing and load changes.				

Emissions Unit Information Section 5

Steam Generating Unit No. 7

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 : 1.50 * wt % S *   Allowable Emissions Unit :
4. Equivalent Allowable Emissions :   395.60 lb/hour 1,732.73 tons/year
5. Method of Compliance :   Fuel analysis and calculations.   Compliance Method Code : ** Compliance Test Frequency : **   Fequency Base Date : *   Regulation : **
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :   Rule 62-296.406(3), F.A.C. (BACT).

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5

Steam Generating Unit No. 7

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 :	40	%
Maximum Period of Excess Opacity Allowed :	2	min/hour

4. Method of Compliance :

Option to use either FDEP or EPA Reference Method 9.

5. Visible Emissions Comment :

Rule 62-296.406(1), F.A.C. and Permit AO01-195854 Specific Condition No. 4.
Applicable during steady state operations.
Test not required if fuel oil is is not burned, other than during startup, for a total of more than 400 hours per federal fiscal year per Rule 62-297.310(7)(a)5., F.A.C.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	S *
2. Basis for Allowable Opacity :	RULE *
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	60 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
Option to use either FDEP or EPA Reference Method 9.	
5. Visible Emissions Comment :	
Rule 62-210.700(3), F.A.C. and Permit AO01-195854 Specific Condition No. 4. Applicable for up to 3 hours in any 24 hour period during soot blowing and load changes.	
Compliance Test Frequency :	0 + Frequency Base Date : +
COM Required :	+
Regulation :	+*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5

Steam Generating Unit No. 7

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	S	*	
2. Basis for Allowable Opacity :		*	
3. Requested Allowable Opacity :			
Normal Conditions :			%
Exceptional Conditions :	100		%
Maximum Period of Excess Opacity Allowed :	60		min/hour
4. Method of Compliance :			
5. Visible Emissions Comment : Rule 62-210.700(2), F.A.C. Applicable during startups and shutdowns.			
Compliance Test Frequency :	0 +	Frequency Base Date :	+
COM Required :	+		
Regulation :	+*		

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

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

4. Method of Compliance :

5. Visible Emissions Comment :
Rule 62-210.700(1).
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hrs in any 24-hr period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 5
Steam Generating Unit No. 7

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype :	*
2. Basis for Allowable Opacity :	RULE *
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	100 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
5. Visible Emissions Comment :	

Rule 62-210.700(1), F.A.C..
Excess emissions resulting from startup, shutdown or malfunction are allowed for up to 2 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

Steam Generating Unit No. 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

Steam Generating Unit No. 7

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.E.3
2. Fuel Analysis or Specification :	III.L.2
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 :	III.L.6
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 :	III.L.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Appendix A
13. Compliance Assurance Monitoring Plan :	III.L.13

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 6

Steam Generating Unit No. 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 : *
Steam Generating Unit No. 8

Description of Emissions Unit for AIRS Tracking : +
Steam Generating Unit No. 8

2. Emissions Unit Identification Number : 008 *
[ ] No Corresponding ID [ ] Unknown

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

6. Emissions Unit Comment :
N/A

DEP Emissions Unit Comment :

Similar-Emissions Unit Identification Numbers for Fee Purposes :
+

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Emissions Unit Control Equipment 1

1. Description : None
2. Control Device or Method Code : *

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

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Emissions Unit Details

1. Initial Startup Date :	
2. Long-term Reserve Shutdown Date :	
3. Package Unit : Manufacturer :	Model Number :
4. Generator Nameplate Rating : 50 MW	
5. Incinerator Information : Dwell Temperature : Dwell Time : Incinerator Afterburner Temperature :	Degrees Fahrenheit Seconds Degrees Fahrenheit
Emissions Unit Type Code : 49 +	

Ozone SIP Base Emissions Unit : +

Emissions Unit Operating Capacity

1. Maximum Heat Input Rate :	584	mmBtu/hr	
2. Maximum Incinerator Rate :		lb/hr	tons/day
3. Maximum Process or Throughput Rate :			
4. Maximum Production Rate :			
5. Operating Capacity Comment :			

Generator nameplate rating is 50 MW at a 0.85 power factor.
Maximum heat input rate shown (584.5 MMBtu/hr) is for combustion of natural gas.
Maximum heat input rate is 539.5 MMBtu/hr for combustion of No. 6 fuel oil.

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

Steam Generating Unit No. 8

Rule Applicability Analysis

N/A

Emissions Unit Information Section 6

Steam Generating Unit No. 8

List of Applicable Regulations

Reference Appendix A

C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	JRK-8	
2. Emission Point Type Code :	2 *	
3. Descriptions of Emission Points Comprising this Emissions Unit : N/A		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common : Unit No. 7 and Unit No. 8		
5. Discharge Type Code :	V	
6. Stack Height :	200	feet
7. Exit Diameter :	10.5	feet
8. Exit Temperature :	290	°F *
9. Actual Volumetric Flow Rate :	179179	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 :

Fields 8 and 9 taken from May 31, 1995 Relative Test Accuracy Audit (RATA).

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Segment Description and Rate : Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : No. 6 Fuel Oil burned in Steam Generating Unit No. 8.	
2. Source Classification Code (SCC) : 1-01-004-01 *	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 3.60	5. Maximum Annual Rate :
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 1.50 Percent Sulfur Limit : +	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 150	
10. Segment Comment : Maximum hourly rate (Field 4 - 3,5967 gal/hr) based on heat input of 539.5 MMBtu/hr and a nominal oil heat content of 150,000 Btu/gal. Maximum percent sulfur (Field 7) per fuel specification. Maximum percent ash (Field 8) is 0.05. No. 6 fuel oil may be supplemented with on-specification used oil.	

F. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Natural Gas burned in Steam Generating Unit No. 8.	
2. Source Classification Code (SCC) : 1-01-006-01 *	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.56	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 : 1,040	
10. Segment Comment : Maximum hourly rate (Field 4 - 0.562 MMft3/hr) based on heat input of 584.4 MMBtu/hr and a nominal natural gas heat content of 1,040 Btu/ft3.	

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

Emissions Unit Information Section 6

Steam Generating Unit No. 8

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 *	*		EL
4 - PM10 *	*		NS
5 - SO2 *	*		EL
6 - VOC *	*		NS
7 - H106 *	*		NS
8 - H107 *	*		NS

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 1

1. Pollutant Emitted : **CO** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 2

1. Pollutant Emitted : **NOX** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

Pot. emission

$$\frac{.316}{\text{mmBTU}} \frac{1095\ \text{hrs}}{\text{yr}} \frac{539.5\ \text{mmBTU}}{\text{hr}} \frac{\text{T}}{2000\ \text{lb}} + \frac{.116\ (\text{T})\ 21\ \text{lbs}}{\text{mmBTU}} \frac{365\ \text{dy}}{\text{yr}} \frac{539.5\ \text{mmBTU}}{2000\ \text{lb}}$$

$= 295.38$

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 3

1. Pollutant Emitted : **PM** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 161.90 lb/hour 295.38 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : **
7. Emissions Method Code : 0 *
8. Calculations of Emissions : N/A
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion No. 6 fuel oil (worst case fuel). Hourly potential emission rate based on 0.3 lb/MMBtu allowable during soot blowing and load changes. Annual potential emission rate based on composite allowable limit of 0.125 lb/MMBtu (0.3 lb/MMBtu for 3 hrs/dy and 0.1 lb/MMBtu for 21 hrs/dy).

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 4

1. Pollutant Emitted : **PM10** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 5

1. Pollutant Emitted : **SO2** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : 1,483.63 lb/hour 6,498.30 tons/year
4. Synthetically Limited? [ ] Yes [X] No
5. Range of Estimated Fugitive/Other Emissions: to tons/year
6. Emissions Factor : Reference : Unit Code : +*
7. Emissions Method Code : 0 *
8. Calculations of Emissions : N/A
9. Pollutant Potential/Estimated Emissions Comment : Potential emissions set equal to allowable emissions. Potential emissions based on combustion of No. 6 fuel oil (worst-case fuel).

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 6

1. Pollutant Emitted : **VOC** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 7

1. Pollutant Emitted : **H106** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

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

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Pollutant Detail Information : Pollutant 8

1. Pollutant Emitted : **H107** *
2. Total Percent Efficiency of Control : %
3. Potential Emissions : lb/hour tons/year
4. Synthetically Limited? [ ] Yes [X] 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 : Potential emissions exceed threshold amount - no emission limits.

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code : RULE * PM				
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units : 0.10 * lb/MMBtu * Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :	53.95	lb/hour	236.30	tons/year
5. Method of Compliance : EPA Reference Method 5, 5B, 5F, or 17 Compliance Method Code : ** Compliance Test Frequency : ** Fequency Base Date : + Regulation : **				
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Rule 62-296.405(1)(b), F.A.C. Applicable during steady state operation and combustion of No. 6 fuel oil. Testing not required if liquid and/or solid fuel, other than during startup, is burned for a total of not more than 400 hours per federal fiscal year per Rule 62-297.310(7)(a)5., F.A.C.				

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Pollutant Information Section 3

Allowable Emissions 2 PM

1. Basis for Allowable Emissions Code :	RULE	*		
2. Future Effective Date of Allowable Emissions :				
3. Requested Allowable Emissions and Units :	0.30	*	lb/MMBtu	*
Allowable Emissions Unit :				
4. Equivalent Allowable Emissions :				
	161.90	lb/hour	88.64	tons/year
5. Method of Compliance : EPA Reference Method 5, 5B, 5F, or 17.				
Compliance Method Code :	+*	Compliance Test Frequency :		+*
Fequency Base Date :	+			
Regulation :				+*

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

Rule 62-210.700(3), F.A.C.
Applicable during combustion of No. 6 fuel oil.
Applicable for up to 3 hours in any 24-hour period during soot blowing and load changes.
Testing not required if liquid and/or solid fuel, other than during startup, is burned for a total of not more than 400 hours per federal fiscal year per Rule 62-297.310(7)(a)5., F.A.C.

Emissions Unit Information Section 6

Steam Generating Unit No. 8

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 :	2.75 * lb/MMBtu *
Allowable Emissions Unit :	
4. Equivalent Allowable Emissions :	1,483.63 lb/hour 6,498.30 tons/year
5. Method of Compliance : EPA Reference Method 6, 6A, 6B, or 6C or fuel oil analysis.	
Compliance Method Code : **	Compliance Test Frequency : **
Fequency Base Date : +	
Regulation :	**
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) : Chapter 62-296.405(1)(c)1.j., F.A.C.	

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

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 :	40	%
Maximum Period of Excess Opacity Allowed :	2	min/hour

4. Method of Compliance :

Option to use either EPA or FDEP Reference Method 9.

5. Visible Emissions Comment :

Rule 62-296.405(1)(a), F.A.C. and Permit AO01-224218 Specific Condition No. 5.
Applicable during steady state operations.
Test not required if fuel oil is is not burned, other than during startup, for a total of more than 400 hours per federal fiscal year per Rule 62-297.310(7)(a)5., F.A.C.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	S *
2. Basis for Allowable Opacity :	RULE *
3. Requested Allowable Opacity :	
Normal Conditions :	%
Exceptional Conditions :	60 %
Maximum Period of Excess Opacity Allowed :	60 min/hour
4. Method of Compliance :	
Option to use either EPA or FDEP Reference Method 9.	
5. Visible Emissions Comment :	
Rule 62-210.700(3), F.A.C. and Permit AO01-224218 Specific Condition No. 6. Applicable for up to 3 hours in any 24 hour period during soot blowing and load changes.	
Compliance Test Frequency :	0 + Frequency Base Date : +
COM Required :	+
Regulation :	+*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Visible Emissions Limitation : Visible Emissions Limitation 3

1. Visible Emissions Subtype :	S	*	
2. Basis for Allowable Opacity :	RULE	*	
3. Requested Allowable Opacity :			
Normal Conditions :		%	
Exceptional Conditions :	100	%	
Maximum Period of Excess Opacity Allowed :	24	min/hour	
4. Method of Compliance :			
5. Visible Emissions Comment :			

Rule 62-210.700(3), F.A.C. and Permit AO01-224218 Specific Condition No. 6.
Applicable for up to 4, 6-minute periods during 3 hours of excess emissions allowed during soot blowing and load changes.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Visible Emissions Limitation : Visible Emissions Limitation 4

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

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

4. Method of Compliance :

5. Visible Emissions Comment :

Rule 62-210.700(2), F.A.C.
Applicable during startups and shutdowns.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

I. VISIBLE EMISSIONS INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Visible Emissions Limitation : Visible Emissions Limitation 5

1. Visible Emissions Subtype : *

2. Basis for Allowable Opacity : RULE *

3. Requested Allowable Opacity :

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

4. Method of Compliance :

5. Visible Emissions Comment :
Rule 62-210.700(1), F.A.C.
Excess emissions resulting from startup, shutdown, or malfunction are allowed for up to 2 hrs in any 24-hr period.

Compliance Test Frequency : 0 + Frequency Base Date : +

COM Required : +

Regulation : +*

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Continuous Monitoring System Continuous Monitor 1

1. Parameter Code : VE *	2. Pollutant(s):
3. CMS Requirement OTHER	CMS Requirement Code : +
4. Monitor Information Manufacturer : Spectrum Model Number : SS4542 Serial Number 940119	
5. Installation Date : 18-Mar-1994	
6. Performance Specification Test Date : 16-Jun-1995	
7. Continuous Monitor Comment : Unit No. 8 is a "gas-fired" unit and therefore exempt from opacity monitoring requirements under 40 CFR Part 75. COMS installed as a contingency in the event Unit No. 8 becomes an "oil-fired" unit in the future. It is currently permitted to burn No. 6 fuel	
Performance Specification Test Status : +	
Certification Date (DD-MON-YYYY) : +	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Continuous Monitoring System Continuous Monitor 2

1. Parameter Code : CO2 *	2. Pollutant(s):
3. CMS Requirement RULE	CMS Requirement Code : +
4. Monitor Information Manufacturer : Thermo-Environmental Instruments, Inc. Model Number : 41H Serial Number 41H-45378-273	
5. Installation Date : 18-Mar-1994	
6. Performance Specification Test Date : 10-Jul-1994	
7. Continuous Monitor Comment : 40 CFR Part 75.	
Performance Specification Test Status : +	
Certification Date (DD-MON-YYYY) : +	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Continuous Monitoring System Continuous Monitor 3

1. Parameter Code : EM *	2. Pollutant(s):
3. CMS Requirement RULE	CMS Requirement Code : +
4. Monitor Information Manufacturer : Thermo-Environmental Instruments, Inc. Model Number : 43H Serial Number 43H-44287-271	
5. Installation Date : 18-Mar-1994	
6. Performance Specification Test Date : 10-Jul-1994	
7. Continuous Monitor Comment : 40 CFR Part 75.	
Performance Specification Test Status : + Certification Date (DD-MON-YYYY) : +	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6

Steam Generating Unit No. 8

Continuous Monitoring System Continuous Monitor 4

1. Parameter Code : EM *	2. Pollutant(s):
3. CMS Requirement RULE	CMS Requirement Code : +
4. Monitor Information Manufacturer : Thermo-Environmental Instruments, Inc. Model Number : 42D Serial Number 42D-45580-274	
5. Installation Date : 18-Mar-1994	
6. Performance Specification Test Date : 10-Jul-1994	
7. Continuous Monitor Comment : 40 CFR Part 75.	
Performance Specification Test Status : + Certification Date (DD-MON-YYYY) : +	

J. CONTINUOUS MONITOR INFORMATION
(Regulated Emissions Units Only)

Emissions Unit Information Section 6
Steam Generating Unit No. 8

Continuous Monitoring System Continuous Monitor 5

1. Parameter Code : FLOW *	2. Pollutant(s):
3. CMS Requirement RULE	CMS Requirement Code : +
4. Monitor Information Manufacturer : United Sciences, Inc. Model Number : Ultraflow 100 Serial Number 9303492	
5. Installation Date : 18-Mar-1994	
6. Performance Specification Test Date : 10-Jul-1994	
7. Continuous Monitor Comment : 40 CFR Part 75	
Performance Specification Test Status : +	
Certification Date (DD-MON-YYYY) : +	

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

Emissions Unit Information Section 6

Steam Generating Unit No. 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.

[ ] 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 6

Steam Generating Unit No. 8

Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.E.3
2. Fuel Analysis or Specification :	III.L.2
3. Detailed Description of Control Equipment :	NA
4. Description of Stack Sampling Facilities :	III.L.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.L.6
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 :	III.L.10
11. Alterntive Modes of Operation (Emissions Trading) :	NA

12. Identification of Additional Applicable Requirements :	Appendix A
13. Compliance Assurance Monitoring Plan :	III.L.13

14. Acid Rain Application (Hard-copy Required) :

Appendix B	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.)

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 1 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 60 Subpart K - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978.		X		Standard applies to storage of petroleum liquids greater than 40,000 gallons. Subpart K §60.111(b) definition of petroleum liquids specifically excludes Nos. 2 through 6 fuel oils. Storage tanks greater than 40,000 gallons at the J.R. Kelly Station Station store No. 2 and No. 6 fuel oil and therefore are not subject to Subpart Ka.
40 CFR Part 60 Subpart Ka - Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.		X		Standard applies to storage of petroleum liquids greater than 40,000 gallons. Subpart Ka §60.111a(b) definition of petroleum liquids specifically excludes Nos. 2 through 6 fuel oils. Storage tanks greater than 40,000 gallons at the J.R. Kelly Station Generating store No. 2 and No. 6 fuel oil and therefore are not subject to Subpart Ka.
40 CFR Part 60 Subpart Kb - Standards of Performance for Volatile Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984.		X		All petroleum liquid storage tanks at the J.R. Kelly Generating Station were constructed prior to 7/23/84 and therefore are not subject to Subpart Kb.
40 CFR Part 60 - Standards of Performance for New Stationary Sources: Subparts A, B, C, Cb, Cc, Cd, D, Da, Db, Dc, E, Eb, F, G, H, I, J, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, WW, XX, AAA, BBB, DDD, FFF, GGG, HHH, III, JJJ, KKK, LLL, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, and WWW		X		None of the listed NSPS' contain requirements which are applicable to the J.R. Kelly Generating Station. Subparts D, Da, and Db are not applicable because the steam boilers were constructed prior to August 17, 1971.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 2 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants				
Subpart A - General Provisions				
Prohibited Activities	§61.05 (b), (c), and (d) §61.05 (a) not required per Subpart M, §61.145(a)(5).		Facility-wide	Prohibits construction or modification without first obtaining written approval, operating a new source in violation of any standard after the effective date of the standard, operating an existing source in violation of a standard ninety days after the effective date of the standard, and failure to submit required source test results.
Source Reporting	§61.10(b), (f), and (g)		Facility-wide	Requires submittal of source information.
Compliance with Standards and Maintenance Requirements	§61.12		Facility-wide	Establishes emission test procedures, requires proper operation and maintenance of the source including control equipment.
Monitoring Requirements	§61.14	X		General monitoring requirements.
Circumvention	§61.19		Facility-wide	Emissions which would constitute a violation of a standard cannot be concealed.
Subpart M - National Emission Standards for Asbestos				
Demolition and Renovation	§61.145		Facility-wide	Standards for demolition and renovation.
Insulating Materials	§61.148		Facility-wide	Standards for insulating materials.
Waste Disposal for Manufacturing, Fabricating, Demolition, Renovation, and Spraying Operations	§61.150		Facility-wide	Standards for waste disposal.
Air Cleaning	§61.152		Facility-wide	Requirements for air-cleaning devices.
Reporting	§61.153	X		Specific reporting requirements.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 3 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 61 - National Emission Standards for Hazardous Air Pollutants: Subparts B, C, D, E, F, H, I, J, K, L, N, O, P, Q, R, T, V, W, Y, BB, and FF		X		None of the listed NESHAPS' contain requirements which are applicable to the J.R. Kelly Generating Station.
40 CFR Part 63 - National Emission Standards for Hazardous Air Pollutants for Source Categories: Subparts A, B, C, D, E, F, G, H, I, L, M, N, O, Q, R, T, W, X, Y, CC, EE, GG, II, and JJ		X		None of the listed NESHAPS' contain requirements which are applicable to the J.R. Kelly Generating Station. In particular, Subpart Q is not applicable because cooling towers operated with chromium-based water treatment chemicals are not utilized. Subpart T is not applicable because cleaning units using halogenated HAP solvents in a total concentration >5% by weight are not used.
40 CFR Part 72 - Acid Rain Program Permits				
Subpart A - Acid Rain Program General Provisions				
Standard Requirements	§72.9 excluding §72.9(c)(3)(i), (ii), and (iv)		Unit No. 8	General Acid Rain Program requirements. SO_2 allowance program requirements start January 1, 2000 (**future requirement**).
Subpart B - Designated Representative				
Designated Representative	§72.20 - §72.24		Unit No. 8	General requirements pertaining to the Designated Representative.
Subpart C - Acid Rain Application				
Requirements to Apply	§72.30(c)		Unit No. 8	Requirement to submit a complete Acid Rain permit application for each source with an affected unit at least 6 months prior to the expiration of an existing Acid Rain permit governing the unit during Phase II or such longer time as may be approved under part 70 of this chapter that ensures that the term of the existing permit will not expire before the effective date of the permit for which the application is submitted **(future requirement)**.
Subpart C - Acid Rain Application				

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 4 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
Permit Application Shield	§72.32		Unit No. 8	Acid Rain Program permit shield for units filing a timely and complete application. Application is binding pending issuance of Acid Rain Permit.
Subpart D - Acid Rain Compliance Plan and Compliance Options				
General	§72.40(a)(1)		Unit No. 8	General SO_2 compliance plan requirements.
Subpart E - Acid Rain Permit Contents				
Permit Shield	§72.51		Unit No. 8	Units operating in compliance with an Acid Rain Permit are deemed to be operating in compliance with the Acid Rain Program.
Subpart H - Permit Revisions				
Fast-Track Modifications	§72.82(a) and (c)		Unit No. 8	Procedures for fast-track modifications to Acid Rain Permits **(potential future requirement).**
Subpart I - Compliance Certification				
Annual Compliance Certification Report	§72.90		Unit No. 8	Requirement to submit an annual compliance report.
40 CFR Part 75 - Continuous Emission Monitoring				
Subpart A - General				
Prohibitions	§75.5		Unit No. 8	General monitoring prohibitions.
Subpart B - Monitoring Provisions				
General Operating Requirements	§75.10		Unit No. 8	General monitoring requirements.
Specific Provisions for Monitoring SO_2 Emissions	§75.11(d)(1) and (e)(1)(i)		Unit No. 8	SO_2 continuous monitoring requirements for gas and oil-fired units.
Subpart B - Monitoring Provisions				

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 5 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
Specific Provisions for Monitoring NO_x Emissions	§75.12(a) and (b)		Unit No. 8	NO_x continuous monitoring requirements for gas and oil-fired nonpeaking units.
Specific Provisions for Monitoring CO_2 Emissions	§75.13(a)		Unit No. 8	CO_2 continuous monitoring requirements.
Specific Provisions for Monitoring Opacity	§75.14(a)	X		Opacity continuous monitoring requirements for coal and oil-fired units. Unit No. 8 is currently a "gas-fired" unit and exempt from opacity monitoring per §75.14(c); rule §75.14(a) could become a future requirement if Unit No. 8 becomes an "oil-fired" unit. **(potential future requirement for Unit No. 8)**
Specific Provisions for Monitoring Opacity	§75.14(c)		Unit No. 8	Opacity continuous monitoring exemption for "gas-fired" units.
Subpart C - Operation and Maintenance Requirements				
Certification and Recertification Procedures	§75.20(b)		Unit No. 8	Recertification procedures **(potential future requirement)** .
Certification and Recertification Procedures	§75.20(c)		Unit No. 8	Recertification procedure requirements (**potential future requirement**) .
Quality Assurance and Quality Control Requirements	§75.21		Unit No. 8	General QA/QC requirements.
Reference Test Methods	§75.22		Unit No. 8	Specifies required test methods to be used for certification or recertification testing **(potential future requirement)**.
Out-Of-Control Periods	§75.24		Unit No. 8	Specifies out-of-control periods and required actions to be taken when out-of-control periods occur.
Subpart D - Missing Data Substitution Procedures				
General Provisions	§75.30		Unit No. 8	General missing data requirements.
Subpart D - Missing Data Substitution Procedures				

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 6 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
Determination of Monitor Data Availability for Standard Missing Data Procedures	§75.32		Unit No. 8	Monitor data availability procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO_2 pollutant concentration monitor and flow monitor/NO_x CEMS, respectively.
Standard Missing Data Procedures	§75.33		Unit No. 8	Missing data substitution procedure requirements after the first 720 and 2,160 quality-assured monitor operating hours for SO_2 pollutant concentration monitor and flow monitor/NO_x CEMS, respectively.
Missing Data Procedures for CO_2 Data	§75.35(a) and (c)		Unit No. 8	Missing data substitution requirements for CO_2 data.
Missing Data Procedures for Heat Input	§75.36(a) and (c)		Unit No. 8	Missing data substitution requirements for heat input data.
Subpart E - Alternative Monitoring Systems				
Alternative Monitoring Systems	§75.40 - 75.48	X		Optional requirements for alternative monitoring systems.
Subpart F - Recordkeeping Requirements				
General Recordkeeping Provisions	§75.50		Unit No. 8	General recordkeeping requirements.
General Recordkeeping Provisions for Specific Situations	§75.51(b)	X		Recordkeeping requirements for units with add-on controls that choose to use parametric monitoring procedures for missing data substitution pursuant to §75.34
Certification, Quality Assurance, and Quality Control Record Provisions	§75.52(b)		Unit No. 8	General QA/QC recordkeeping requirements.
Monitoring Plan	§75.53(a) - (c)		Unit No. 8	Requirement to prepare and maintain a Monitoring Plan.
General Recordkeeping Provisions	§75.54		Unit No. 8	Requirements pertaining to general recordkeeping.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 7 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
Subpart F - Recordkeeping Requirements				
General Recordkeeping Provisions	§75.56(a) and (c) except §75.56(a)(4)		Unit No. 8	Requirements pertaining to general recordkeeping.
Subpart G - Reporting Requirements				
General Provisions	§75.60		Unit No. 8	General reporting requirements.
Notifications	§75.61(a)(1) and (a)(5), (b), and (c)		Unit No. 8	Requires written submittal of certification tests, recertification tests, and revised test dates for CEMS. Notice of certification testing shall be submitted at least 45 days prior to the first day of certification or recertification testing. Notification of any proposed adjustment to certification testing dates must be provided at least 7 business days prior to the proposed date change (**potential future requirement**) .
Certification or Recertification Application	§75.63		Unit No. 8	Requires submittal of a recertification application within 30 days after completing the recertification test (**potential future requirement**).
Quarterly Reports	§75.64(a)(1) - (5)		Unit No. 8	Requirement to submit quarterly data report.
Quarterly Reports	§75.64(b), (c), (d)		Unit No. 8	Requirement to submit compliance certification in support of each quarterly data report. Requirement to submit quarterly reports in an electronic format to be specified by EPA.
Opacity Reports	§75.65		Unit No. 8	Requirement to report excess opacity emissions to the applicable State (FDEP) agency in the format specified by the State agency. Not required by FDEP permit.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 8 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 77 - Excess Emissions				
Offset Plans for Excess Emissions of Sulfur Dioxide	§77.3		Unit No. 8	Requirement to submit offset plans for excess SO_2 emissions not later than 60 days after the end of any calendar year during which an affected unit has excess SO_2 emissions. Required contents of offset plans are specified (**potential future requirement**).
Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	§77.5(b)		Unit No. 8	Requirement for the Designated Representative to hold enough allowances in the appropriate compliance subaccount to cover deductions to be made by EPA if a timely and complete offset plan is not submitted or if EPA disapproves a proposed offset plan (**potential future requirement**).
Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	§77.6		Unit No. 8	Requirement to pay a penalty if excess emissions of SO_2 or NO_x occur at any affected unit during any year (**potential future requirement**).
40 CFR Part 82 - Protection of Stratospheric Ozone				
Production and Consumption Controls	Subpart A	X		J.R. Kelly Generating Station does not produce or consume ozone depleting substances.
Servicing of Motor Vehicle Air Conditioners	Subpart B: §82.34(a), §82.36, and §82.42(a) and (b); except (b)(3)		Vehicle Fleet Maintenance	Servicing of motor vehicles which involves refrigerant in the motor vehicle air conditioner is conducted by City of Gainesville staff who comply with Subpart B requirements.
Ban on Nonessential Products Containing Class I Substances and Ban on Nonessential Products Containing or Manufactured with Class II Substances	Subpart C	X		J.R. Kelly Generating Station does not sell or distribute any banned nonessential substances.
The Labeling of Products Using Ozone-Depleting Substances	Subpart E	X		J.R. Kelly Generating Station does not produce any products containing ozone depleting substances.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 9 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
Subpart F - Recycling and Emissions Reduction				
Prohibitions	§82.154	X		Contractors maintain, service, repair, and dispose of any appliances in compliance with §82.154 prohibitions. Appliances are defined by §82.152 - any device which contains and uses a Class I or II substance as a refrigerant and which is used for household or commercial purposes, including any air conditioner, refrigerator, chiller, or freezer
Required Practices	§82.156 except §82.156(i)(5), (6), (9), (10), and (11)	X		Contractors maintain, service, repair, and dispose of any appliances in compliance with §82.156 required practices.
Required Practices	§82.156(i)(5), (6), (9), (10), and (11)		Owners/operators of appliances as defined by §82.152	Requirements pertaining to repair of leaks.
Technician Certification	§82.161	X		Contractors' technicians meet the certification requirements.
Certification By Owners of Recovery and Recycling Equipment	§82.162	X		Contractors maintain, service, repair, and dispose of any appliances using required recovery and recycling equipment.
Reporting and Recordkeeping Requirements	§82.166(k), (m), and (n)		Owners/operators of appliances as defined by §82.152	Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep servicing records documenting the date and type of service, as well as the quantity of refrigerant added.
40 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 51 - Requirements for Preparation, Adoption, and Submittal of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.

Table A-1. Summary of Federal EPA Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 10 of 10)

Regulation	Citation	Not Applicable	Applicable	Applicable Requirement or Non-Applicability Rationale
40 CFR Part 52 - Approval and Promulgation of Implementation Plans		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 62 - Approval and Promulgation of State Plans for Designated Facilities and Pollutants		X		State agency requirements - not applicable to individual emission sources.
40 CFR Part 70 - State Operating Permit Programs		X		State agency requirements - not applicable to individual emission sources.
40 CFR Parts 53, 54, 55, 56, 57, 58, 62, 66, 67, 68, 69, 71, 73, 74, 76, 78, 79, 80, 81, 85, 86, 87, 88, 89, and 90		X		The listed regulations do not contain any requirements which are applicable to the J.R. Kelly Generating Station.

Source: ECT, 1996.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 1 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-4, F.A.C. - Permits: Part I General					
Scope of Part I	62-4.011, F.A.C.	X			Contains no applicable requirements.
Definitions	62-4.020, .021, F.A.C.	X			Contains no applicable requirements.
General Prohibition	62-4.030, F.A.C		X		All stationary air pollution sources must be permitted, unless otherwise exempted.
Exemptions	62-4.040, F.A.C		X		Certain structural changes exempt from permitting. Other stationary sources exempt from permitting upon FDEP insignificance determination.
Permit Processing	62-4.055, F.A.C.	X			Contains no applicable requirements.
Consultation	62-4.060, F.A.C.	X			Consultation is encouraged, not required.
Standards for Issuing or Denying Permits; Issuance; Denial	62-4.070, F.A.C	X			Establishes standard procedures for FDEP. Requirement is not applicable to the facility.
Modification of Permit Conditions	62-4.080, F.A.C	X			Application is for initial Title V operating permit. A Title V permit condition modification is not requested.
Renewals	62-4.090, F.A.C.		X		Establishes permit renewal criteria. Additional criteria are cited at 62-213.-430(3), F.A.C. **(future requirement)**
Suspension and Revocation	62-4.100, F.A.C.		X		Establishes permit suspension and revocation criteria.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 2 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Transfer of Permits	62-4.120, F.A.C.	X			Application is for initial Title V operating permit. A sale or legal transfer of a permitted facility is not included in this application.
Plant Operation - Problems	62-4.130, F.A.C.		X		Immediate notification is required whenever the permittee is temporarily unable to comply with any permit condition. Notification content is specified. **(potential future requirement)**
Permit Review	62-4.150, F.A.C.	X			General review requirements.
Construction Permits	62-4.210, F.A.C.	X			General requirements for construction permits.
Operation Permits for New Sources	62-4.220, F.A.C.	X			General requirements for initial new source operation permits.
Chapter 62-204, F.A.C. - State Implementation Plan					
State Implementation Plan	62-204.100, .200, .220(1)-(3), .240, .260, .320, .340, .360, .400, and .500, F.A.C.	X			Contains no applicable requirements.
Ambient Air Quality Protection	62-204.220(4), F.A.C.	X			Assessments of ambient air pollutant impacts must be made using applicable air quality models, data bases, and other requirements approved by FDEP and specified in 40 CFR Part 51, Appendix W. Air quality modeling is not required for Title V permit applications.
State Implementation Plan	**62-204.800(8)(a), (b)8., F.A.C.[1]**		X		NESHAPS Subpart M; see Table A-1 for detailed federal regulatory citations.
State Implementation Plan	**62-204.800(12), (13), (14), and (16) F.A.C.[1]**			Unit No. 8	Acid Rain Program; see Table A-1 for detailed federal regulatory citations.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 3 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
State Implementation Plan	**62-204.800(19), F.A.C [1].**		X		Protection of Stratospheric Ozone; see Table A-1 for detailed federal regulatory citations.
Chapter 62-210, F.A.C. - Stationary Sources - General Requirements					
Purpose and Scope	62-210.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-210.200, F.A.C.	X			Contains no applicable requirements.
Permits Required	62-210.300, F.A.C., except 62-210.300(1) and (4), F.A.C.		X		Air operation permit required, with the exception of certain facilities and sources. Startup notification required if a permitted source has been shut down for more than 1 year.
Air Construction Permits	62-210.300(1), F.A.C.	X			Application is for initial Title V operating permit. A construction permit is not requested in this application.
Emission Unit Reclassification	62-210.300(6), F.A.C.		X		Emission unit reclassification **(potential future requirement)**
Public Notice and Comment					
Public Notice of Proposed Agency Action	62-210.350(1), F.A.C.		X		All permit applicants required to publish notice of proposed agency action **(future requirement)**.
Additional Notice Requirements for Sources Subject to Prevention of Significant Deterioration or Nonattainment Area New Source Review	62-210.350(2), F.A.C.	X			PSD and nonattainment area NSR application not included in this application package.
Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources	62-210.350(3), F.A.C.		X		Notice requirements for Title V operating permit applicants **(future requirement)**.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 4 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Public Notice and Hearing Requirements for State Implementation Plan Revisions	62-210.350(4), F.A.C.	X			Defines requirements applicable to FDEP, only.
Administrative Permit Corrections	62-210.360, F.A.C.	X			Application is for initial Title V operating permit. An administrative permit correction is not requested in this application.
Reports					
Notification of Intent to Relocate Air Pollutant Emitting Facility	62-210.370(1), F.A.C.	X			Facility does not have any relocatable emission units.
Annual Operating Report for Air Pollutant Emitting Facility	62-210.370(2), F.A.C.		X		Specifies annual reporting requirements
Stack Height Policy	62-210.550, F.A.C.	X			Limits credit in air dispersion studies to good engineering practice (GEP) stack heights. All stacks at the J.R. Kelly Station were in existence prior to 12/30/70.
Circumvention	62-210.650, F.A.C.	X			An applicable air pollution control device cannot be circumvented and must be operated whenever the emission unit is operating. The J.R. Kelly Station does not have any air pollution control devices.
Excess Emissions	62-210.700(2) and (3), F.A.C.			Unit No. 6 Unit No. 7 Unit No. 8	Excess emissions due to startup, shut down, and malfunction are permitted. Excess emissions during soot blowing and load change are permitted with restrictions. **(potential future requirement)**
Excess Emissions	62-210.700(1), F.A.C.			Unit No. 6 Unit No. 7 Unit No. 8	Excess emissions due to malfunction are permitted. **(potential future requirement)**

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 5 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Excess Emissions	62-210.700(1), (4), (5), and (6), F.A.C.			CT1 CT2 CT3	Excess emissions due to startup, shut down, and malfunction are limited. Excess emissions due to malfunction must be reported. Excess emissions due to certain other causes are prohibited. **(potential future requirement)**
Forms and Instructions	62-210.900, F.A.C.		X		Contains AOR requirements.
Notification Forms for Air General Permits	62-210.920, F.A.C.	X			Contains no applicable requirements.
Chapter 62-212, F.A.C. - Stationary Sources - Preconstruction Review					
Purpose and Scope	62-212.100, F.A.C.	X			Contains no applicable requirements.
General Preconstruction Review Requirements	62-212.300, F.A.C.	X			Air construction permit requirements, not applicable to Title V operating permit applications.
Prevention of Significant Deterioration	62-212.400, F.A.C.	X			PSD permit required prior to construction of facility, not applicable to Title V operating permit applications.
New Source Review for Nonattainment Areas	62-212.500, F.A.C.	X			Facility not located in any nonattainment area or nonattainment area of influence.
Sulfur Storage and Handling Facilities	62-212.600, F.A.C.	X			Applicable only to sulfur storage and handling facilities.
Chapter 62-213, F.A.C. - Operation Permits for Major Sources of Air Pollution					
Purpose and Scope	62-213.100, F.A.C.	X			Contains no applicable requirements.
Annual Licensing Fee	62-213.205(1) and (4), F.A.C.		X		Operating license fee and documentation requirements.
Annual Licensing Fee	62-213.205(2), (3), and (5), F.A.C.	X			Contains no applicable requirements.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 6 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Title V Air General Permits	62-213.300, F.A.C.	X			No eligible facilities
Permits and Permit Revisions Required	62-213.400, F.A.C.		X		Title V operation permit required.
Changes Without Permit Revision	62-213.410, F.A.C.		X		Certain changes may be made if specific notice and recordkeeping requirements are met **(potential future requirement)**.
Immediate Implementation Pending Revision Process	62-213.412, F.A.C.		X		Certain modifications can be implemented pending permit revision if specific criteria are met **(potential future requirement)**.
Fast-Track Revisions of Acid Rain Parts	62-213.413, F.A.C.			Unit No. 8	Optional provisions for Acid Rain permit revisions **(potential future requirement)**.
Trading of Emissions within a Source	62-213.415, F.A.C.	X			Applies only to facilities with a federally enforceable emissions cap.
Permit Applications	62-213.420(1)(a)1.a. and (1)(b),F.A.C.		X		Title V operating permit application required.
Permit Issuance, Renewal, and Revision					
Action on Application	62-213.430(1), F.A.C.	X			Contains no applicable requirements.
Permit Denial	62-213.430(2), F.A.C.	X			Contains no applicable requirements.
EPA Recommended Actions	62-213.430(5), F.A.C.	X			Contains no applicable requirements.
Permit Review by EPA and Affected States	62-213.450, F.A.C.	X			Contains no applicable requirements.
Permit Shield	62-213.460, F.A.C.		X		Provides permit shield for facilities in compliance with permit terms and conditions.
Forms and Instructions	62-213.900, F.A.C.		X		Contains fee form requirements.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 7 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-214—Requirements for Sources Subject to the Federal Acid Rain Program					
Purpose and Scope	§62-214.100, F.A.C.	X			Contains no applicable requirements.
Applicability	§62-214.300, F.A.C.		X		Facility includes Acid Rain units, therefore facility compliance with §62-213 and §62-214, F.A.C., is required.
Exemptions	§62-214.340, F.A.C.			Unit No. 8	An application may be submitted for certain exemptions **(potential future requirement)**.
Certification	§62-214.350, F.A.C.			Unit No. 8	The designated representative must certify all Acid Rain submissions.
Department Action on Applications	§62-214.360, F.A.C.	X			Contains no applicable requirements.
Revisions and Administrative Corrections	§62-214.370, F.A.C.			Unit No. 8	Defines revision procedures and automatic amendments **(potential future requirement)**..
Implementation and Termination of Compliance Options	§62-214.430, F.A.C.			Unit No. 8	Defines permit activation and termination procedures **(potential future requirement)**..
Chapter 62-252 - Gasoline Vapor Control	62-252, F.A.C.	X			Facility not located in an ozone nonattainment area or an air quality maintenance area for ozone
Chapter 62-256 - Open Burning and Frost Protection Fires					
Declaration and Intent	62-256.100, F.A.C.	X			Contains no applicable requirements.
Definitions	62-256.200, F.A.C.	X			Contains no applicable requirements.
Prohibitions	**62-256.300, F.A.C.**[1]		X		Prohibits open burning.
Burning for Cold and Frost Protection	62-256.450, F.A.C.	X			Limited to agricultural protection.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 8 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Land Clearing	**62-256.500, F.A.C.[1]**		X		Defines allowed open burning for non-rural land clearing and structure demolition.
Industrial, Commercial, Municipal, and Research Open Burning	**62-256.600, F.A.C.[1]**		X		Prohibits industrial open burning
Open Burning allowed	62-256.700, F.A.C.	X			Contains no applicable requirements.
Effective Date	62-256.800, F.A.C.	X			Contains no applicable requirements.
Chapter 62-257 - Asbestos Fee	**62-257.301, .400, and .900, F.A.C.[1]**		X		Requires notice and payment of fee for asbestos removal projects. **(potential future requirement)**
Chapter 62-281 - Motor Vehicle Air Conditioning Refrigerant Recovery and Recycling	62-281.300, .400, .500, and .900, F.A.C.			Vehicle Fleet Maintenance	Servicing of motor vehicle air conditioners and vehicle maintenance that may release refrigerants is conducted.
Chapter 62-296 - Stationary Source - Emission Standards					
Purpose and Scope	62-296.100, F.A.C.	X			Contains no applicable requirements
General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions	62-296.320(1), F.A.C.		X		Known and existing vapor control devices must be applied as required by the Department.
General Pollutant Emission Limiting Standard, Objectionable Odor Prohibited	62-296.320(2), F.A.C.		X		Objectionable odor release is prohibited.
General Pollutant Emission Limiting Standard, Industrial, Commercial, and Municipal Open Burning Prohibited	**62-296.320(3), F.A.C.[1]**		X		Open burning in connection with industrial, commercial, or municipal operations is prohibited.
General Particulate Emission Limiting Standard, Process Weight Table	62-296.320(4)(a), F.A.C.	X			Facility does not have any applicable emission units. Combustion emission units are exempt per 62-296.320(4)(a)1a.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 9 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
General Particulate Emission Limiting Standard, General Visible Emission Standard	62-296.320(4)(b), F.A.C.		X		Opacity limited to 20 percent, unless otherwise permitted. Test methods specified.
General Particulate Emission Limiting Standard, Unconfined Emission of Particulate Matter	62-296.320(4)(c), F.A.C.		X		Reasonable precautions must be taken to prevent unconfined particulate matter emission.
Existing Fossil Fuel Fired Steam Generators with More Than 250 MMBtu/hr Heat Input	§62-296.405(1)(a), (b), (c)1.j. and (c)3., (e), (f)1.a.(i) and (f)1.b., (g), F.A.C.			Unit No. 8	(1) Visible Emissions - 20 percent opacity except for either one six-minute period per hour during which opacity shall not exceed 27 percent, or one two-minute period per hour during which opacity shall not exceed 40 percent. The option selected shall be specified in the source's construction and operation permits. (2) Particulate Matter - 0.1 lb/MMBtu (3) Sulfur Dioxide - 2.75 lb/MMBtu Specifies test methods and procedures
New and Existing Fossil Fuel Fired Steam Generators with Less Than 250 MMBtu/hr Heat Input	§62-296.406(1), (2), (3), F.A.C.			Unit No. 6 Unit No. 7	(1) Visible Emissions - 20 percent opacity except for either one six-minute period per hour during which opacity shall not exceed 27 percent, or one two-minute period per hour during which opacity shall not exceed 40 percent. The option selected shall be specified in the source's construction and operation permits. (2) Particulate Matter - BACT (3) Sulfur Dioxide - BACT

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 10 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Specific Emission Limiting and Performance Standards	62-296.401 through 62-296.404 and 62-296.407 through 62-296.417, F.A.C.	X			No applicable unit at facility.
Reasonably Available Control Technology (RACT) Volatile Organic Compounds (VOC) and Nitrogen Oxides (NO_x) Emitting Facilities	62-296.500 through 62-296.516, F.A.C.	X			Facility is not located in an ozone nonattainment area or an ozone air quality maintenance area.
Reasonably Available Control Technology (RACT) - Requirements for Major VOC- and NO_x-Emitting Facilities	62-296.570, F.A.C.	X			Facility is not located in a specified ozone nonattainment area or a specified ozone air quality maintenance area (Broward, Dade and Palm Beach Counties)
Reasonably Available Control Technology (RACT) - Lead	62-296.600 through 62-296.605, F.A.C.	X			Facility not located in a lead nonattainment area or a lead air quality maintenance area.
Reasonably Available Control Technology (RACT)—Particulate Matter	§62-296.700 through 62-296.712, F.A.C.	X			Facility not located in a PM nonattainment area or a PM air quality maintenance area.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 11 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Chapter 62-297 - Stationary Sources - Emissions Monitoring					
Purpose and Scope	62-297.100, F.A.C.	X			Contains no applicable requirements.
General Test Requirements	62-297.310(1) through (6), and (8), F.A.C.			Unit No. 6 Unit No. 7 Unit No. 8 CT-1 CT-2 CT-3	Specifies general compliance test requirements.
General Test Requirements	62-297.310(7)(a)2., 3., 4., 5., and 9., F.A.C.			Unit No. 6 Unit No. 7 Unit No. 8	Specifies general compliance test requirements.
General Test Requirements	62-297.310(7)(a)8., F.A.C.			CT-1 CT-2 CT-3	Specifies general compliance test requirements.
General Test Requirements	62-297.310(7)(a)10., F.A.C.		X		Specifies general compliance test exemptions.
Compliance Test Methods	62-297.401, F.A.C.	X			Contains no applicable requirements.
Supplementary Test Procedures	62-297.440, F.A.C.	X			Contains no applicable requirements.
EPA VOC Capture Efficiency Test Procedures	62-297.450, F.A.C.	X			Contains no applicable requirements.
CEMS Performance Specifications	62-297.520, F.A.C.	X			Contains no applicable requirements.
Exceptions and Approval of Alternate Procedures and Requirements	62-297.620, F.A.C.	X			Exceptions or alternate procedures have not been requested.

Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 12 of 12)

Regulation	Citation	Not Applicable	Applicable: Facility-Wide	Applicable: Emission Units	Applicable Requirement or Non-Applicability Rationale
Current Permits[1] (provided for informational purposes)					
	AO01-195854			Unit No. 6	See Appendix D for permit text and conditions.
	AO01-224217			Unit No. 7	See Appendix D for permit text and conditions.
	AO01-224218			Unit No. 7	See Appendix D for permit text and conditions.
	AO01-241346			CT - 1 CT - 2 CT - 3	See Appendix D for permit text and conditions.

[1] - State requirement only; not federally enforceable.

Source: ECT, 1996.

LIST OF EQUIPMENT/ACTIVITIES REGULATED UNDER TITLE VI

GRU Main Administration Building:

Unit No.	Refrigerant	Charge (lb)
AA13	R-11	850

J.R. KELLY GENERATING STATION
ALTERNATIVE METHODS OF OPERATION

Unit No. 6 - Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMB-tu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 - 187.3	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	≤1.5	0 - 187.3	24	7	8,760

Unit No. 7 - Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMB-tu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 - 272.0	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	≤1.5	0 - 249.0	24	7	8,760
3	Co-firing Natural Gas/ No.6 Fuel Oil	≤1.5	0 - 272.0	24	7	8,760

J.R. KELLY GENERATING STATION
ALTERNATIVE METHODS OF OPERATION
(continued)

Unit No. 8 - Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMB-tu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 - 584.5	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	[1]	0 - 539.5	24	7	8,760
3	Co-firing Natural Gas/ No.6 Fuel Oil	[1]	0 - 584.5	24	7	8,760

[1] - Fuel oil sulfur content equivalent to 2.75 lb SO_2/MMBtu heat input.

Combustion Turbines No. 1, 2, and 3

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMB-tu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 - 200.0	24	7	8,760
2	No. 2 Fuel Oil	N/A	0 - 207.0	24	7	8,760

PROCEDURES FOR STARTUP AND SHUTDOWN COMBUSTION TURBINES

STARTING SEQUENCE

Upon receiving the startup signal from the plant control system, the turbine will proceed automatically through the following sequence:

1. Lube oil pump starts.
2. Compressor for clutch air starts and clutch is engaged.
3. Turning gear starts.
4. Starting device runs and accelerates from low speed. Turning gear shutdown at 20-percent speed.
5. At about 20-percent speed, the ignition is turned on and fuel is injected. The machine accelerates to approximately 55-percent speed; starting device clutch disengages and starting device shuts down.
6. The unit is run at 95-percent speed for the required warmup period and then accelerated to synchronous speed.

SHUTDOWN SEQUENCE

1. The unit runs for the required length of time at idle speed to assure proper cool down.
2. A relay turns the control switch to off and fuel is shut down. The lube oil pump starts at approximately 80-percent speed and the machine continues deceleration.
3. Clutch is engaged.
4. The turning gear starts and drives machine spindle for completion of the cooling off period.
5. The clutch is disengaged and turning gear and lube oil pump shut down.

GENERATING UNIT STARTUP
JRK 6 & 7

- Ensure all fluid levels are in limits.
- Insure fuel inventory is adequate.
- Ensure all fuel safety systems are in service.
- Ensure all valves/switches/breakers are set for startup.
- Establish fire in steam generator.
- Regulate firing rate to raise pressure and temperatures within established limits.
- At approximately 800 psig and saturation temperature +75 degrees Fahrenheit, begin steam admission to turbine.
- Increase turbine speed and firing rate in accordance with established operating limits until turbine speed reaches approximately 3,600 rpm.
- Synchronize generator to power grid and increase generator load to 5 percent.
- Ensure all required systems are in service and operable.
- Increase generator load to desired operating level.

GENERATING UNIT SHUTDOWN

- Reduce generator load and reduce pressure and temperature to established levels.
- Open generator breaker(s) to disconnect generator from power grid.
- Reduce fuel flow to minimum and trip fuel.
- Secure all operating and safety systems in accordance with established operating procedures.

GENERATING UNIT STARTUP
JRK 8

- Ensure all fluid levels are in limits.
- Insure fuel inventory is adequate.
- Ensure all fuel safety systems are in service.
- Ensure all environmental monitoring systems are in service.
- Ensure all valves/switches/breakers are set for startup.
- Establish fire in steam generator.
- Regulate firing rate to raise pressure and temperatures within established limits.
- At approximately 800 psig and saturation temperature +75 degrees Fahrenheit, begin steam admission to turbine.
- Increase turbine speed and firing rate in accordance with established operating limits until turbine speed reaches approximately 3,600 rpm.
- Synchronize generator to power grid and increase generator load to 5 percent.
- Ensure all required systems are in service and operable.
- Increase generator load to desired operating level.

GENERATING UNIT SHUTDOWN

- Reduce generator load and reduce pressure and temperature to established levels.
- Open generator breaker(s) to disconnect generator from power grid.
- Reduce fuel flow to minimum and trip fuel.
- Secure all operating and safety systems in accordance with established operating procedures.

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter emissions that may result from operations include:

- Vehicular traffic on paved and unpaved roads.
- Wind-blown dust from material storage and yard areas.
- Periodic abrasive blasting.

The following techniques may be used to control unconfined particulate matter emissions on an as needed basis:

- X Chemical or water application to:
  - ○ Unpaved roads
  - ○ Unpaved yard areas
- X Paving and maintenance of roads, parking areas and yards.
- X Landscaping or planting of vegetation.
- X Confining abrasive blasting where possible.
- Other techniques, as necessary

List of Proposed Exempt Activities (Page 1 of 2)

Activity[1]	Basis[2]
~~Brazing, soldering and welding~~	Rule 62-210.300(3)(a)16., F.A.C.
Parts cleaning and degreasing stations[3]	All cleaning conducted at work stations with lids closed when not in use. Rule 62-213.430(6)(b)., F.A.C.
One or more emergency generators which are not subject to the Acid Rain Program and have total fuel consumption, in the aggregate, of 32,000 gallons per year or less of diesel fuel, 4,000 gallons per year or less of gasoline, and 4.4 million cubic feet per year or less of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.	Rule 62-210.300(3)(a)20., F.A.C.
One or more heating units and general purpose internal combustion engines which are not subject to the Acid Rain Program and have total fuel consumption, in the aggregate, of 32,000 gallons per year or less of diesel fuel, 4,000 gallons per year or less of gasoline, and 4.4 million cubic feet per year or less of natural gas or propane, or an equivalent prorated amount if multiple fuels are used.	Rule 62-210.300(3)(a)21., F.A.C.
Storage tanks <550 gallons[3]	Prior consensus with FDEP: Item 40, Title V Insignificant Source Summary for Electric Power Plants Rule 62-213.430(6)(b)., F.A.C.
No. 2 and No. 6 fuel oil storage tanks >550 gallons[3]	Low volatility materials. Rule 62-213.430(6)(b)., F.A.C.
Underground gasoline and diesel storage tanks ≤ 550 gallons[3]	Low throughput. Rule 62-213.430(6)(b)., F.A.C.
Laboratory equipment used exclusively for chemical or physical analyses (including fume hoods and vents)	Rule 62-210.300(3)(a)15.,F.A.C.
Fire and safety equipment	Rule 62-210.300(3)(a)22.,F.A.C.
Turbine vapor extractor[3]	Prior consensus with FDEP: Item 31, Title V Insignificant Source Summary for Electric Power Plants Rule 62-213.430(6)(b)., F.A.C.
Sand blasting and abrasive grit blasting where temporary total enclosures are used to contain particulates[3]	Prior consensus with FDEP: Item 39, Title V Insignificant Source Summary for Electric Power Plants Rule 62-213.430(6)(b)., F.A.C.
Equipment used for steam cleaning	Rule 62-210.300(3)(a)10.,F.A.C.

List of Proposed Exempt Activities (Page 2 of 2)

Activity[1]	Basis[2]
Vehicle refueling operations[3]	Low refueling volumes. Rule 62-213.430(6)(b)., F.A.C.
Vacuum pumps in laboratory operations	Rule 62-210.300(3)(a)9.,F.A.C.
Equipment used exclusively for space heating, other than boilers	Rule 62-210.300(3)(a)12.,F.A.C.
Surface coating operations utilizing 6.0 gallons per day or less, averaged monthly, of coatings containing greater than 5.0 percent VOCs, by volume.	Rule 62-210.300(3)(a)23.,F.A.C.
Surface coating operations utilizing only coatings containing 5.0 percent or less VOCs, by volume.	Rule 62-210.300(3)(a)24.,F.A.C.
Degreasing units using heavier-than-air vapors exclusively, except any unit using or emitting any substance classified as a hazardous air pollutant	Rule 62-210.300(3)(a)26.,F.A.C.

[1] "Trivial activities" , as listed in the Division of Air Resources Management guidance document DARM-PER/V-15 dated April 16, 1996, have been excluded from the Title V permit application as directed by this document.

"Trivial activities", as proposed to the Department in FCG's letter dated May 15, 1996, have also been excluded from the Title V application. The activities identified in the FCG letter are consistent with those listed in DARM-PER/V-15 in terms of emission types and amounts. To the extent that the Department determines these activities to be "non-trivial", the City of Gainesville, GRU hereby provides notice that these activities qualify for a temporary exemption from permitting until a final determination is made under the Title V permitting requirements pursuant to Rule 210.300(3)(b), F.A.C., and also requests that these activities be exempt from Title V permitting pursuant to Rule 62-213.430(6)(b).,F.A.C.

[2] Although emission rates have not been quantified for all of the activities listed above, professional judgement indicates that each listed source unit type will meet the following criteria pursuant to Rule 62-213.430(6)(b).,F.A.C.:

- Are not subject to any unit specific applicable requirements; i.e., listed source unit types are only subject to general facility-wide applicable requirements;
- Potential emissions are expected to be less than 500 pounds per year of lead and lead compounds;
- Potential emissions are expected to be less than 1,000 pounds per year of any hazardous air pollutant;
- Potential emissions are expected to be less than 2,500 pounds per year of total hazardous air pollutants; and
- Potential emissions are expected to be less than 5 tons per year of any other regulated pollutant.

[3] These activities have historically not been subject to FDEP permitting requirements and therefore do not currently possess FDEP permits. The City of Gainesville, GRU hereby provides notice that these activities qualify for a temporary exemption from permitting until a final determination is made under the Title V permitting requirements pursuant to Rule 210.300(3)(b), F.A.C.

Source: ECT, 1996.

III.L.13

COMPLIANCE ASSURANCE MONITORING PLAN
(RESERVED)

KENNON

GRU

GAINESVILLE REGIONAL UTILITIES

Strategic Planning

Rec 092397

Read 092397

September 18, 1997

Mr. Scott M. Sheplak, P.E.
Bureau of Air Regulation
Florida Dept. of Environmental Protection
2600 Blair Stone Road, MS 5505
Tallahassee, FL 32399-2400

RE: City of Gainesville
Gainesville Regional Utilities
J. R. Kelly Generating Station
Draft Title V Permit No. 0010005-001-AV

Dear Mr. Sheplak:

Enclosed are the following documents:

- GRU's comments on the Draft Title V Permit No. 0010005-001-AV.
- Revised Facility Plot Plan dated 09/15/97 (Document II.E.2. of the Title V Permit Application).
- Revised Alternative Methods of Operation dated 09/16/97 (Document III.L.10 of the Title V Permit Application).
- Responsible Official Certification for amendments to the Title V permit application.

GRU is hereby requesting that the Department issue and incorporate into the Title V permit an order extending the expiration date(s) of the existing air operating permits until the Title V permit becomes effective. This will clarify that the facility will continue to comply with the terms and conditions of the existing permits until such time that the Title V permit becomes effective.

GRU would appreciate the Department forwarding to GRU any comments received from the public or other regulatory agencies pertaining to the draft permit.

(352) 334-3400 ext. 1260 P. O. Box 147117, Station A136, Gainesville, Florida 32614-7117 Fax: (352) 334-3151

I will be vacation from September 19 – 30, 1997. In my absence, please call Angela Morrison at (904) 222-7500 if you have any questions.

Sincerely,

Yolanta E. Jonynas

Yolanta E. Jonynas
Sr. Environmental Engineer

xc: D. Beck
R. Manasco
A. Morrison, HGSS
G. Swanson
CAA Title V

sheplakTV

Owner/Authorized Representative or Responsible Official

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

   Name: Michael L. Kurtz
   Title: General Manager

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

   Organization/Firm: City of Gainesville, GRU
   Street Address: 605 SE 3rd Street
   City: Gainesville State: FL Zip Code: 32601

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

   Telephone: (352) 334 - 2811 Fax: (352) 334 - 2277

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 unit.*

Michael L. Kurtz
Signature

9/18/97
Date

* Attach letter of authorization if not currently on file.

J. R. KELLY GENERATING STATION
ALTERNATIVE METHODS OF OPERATION

Unit No. 6 – Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMBtu/hr)	Maximum Operating House		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 – 187.3	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	≤ 1.5	0 – 187.3	24	7	8,760
3	Co-firing Natural Gas/No. 6 Fuel Oil/Used Oil	≤ 1.5	0 – 187.3	24	7	8,760

Unit No. 7 – Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMBtu/hr)	Maximum Operating House		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 – 272.0	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	≤ 1.5	0 – 249.0	24	7	8,760
3	Co-firing Natural Gas/No. 6 Fuel Oil/Used Oil	≤ 1.5	0 – 272.0	24	7	8,760

J. R. KELLY GENERATING STATION
ALTERNATIVE METHODS OF OPERATION
(continued)

Unit No. 8 – Fossil Fuel Steam Generator

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMBtu/hr)	Maximum Operating House		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 – 584.5	24	7	8,760
2	No. 6 Fuel Oil/Used Oil	[1]	0 – 539.5	24	7	8,760
3	Co-firing Natural Gas/No. 6 Fuel Oil/Used Oil	[1]	0 – 584.5	24	7	8,760

[1] – Fuel oil sulfur content equivalent to 2.75 lb SO_2/MMBtu heat input.

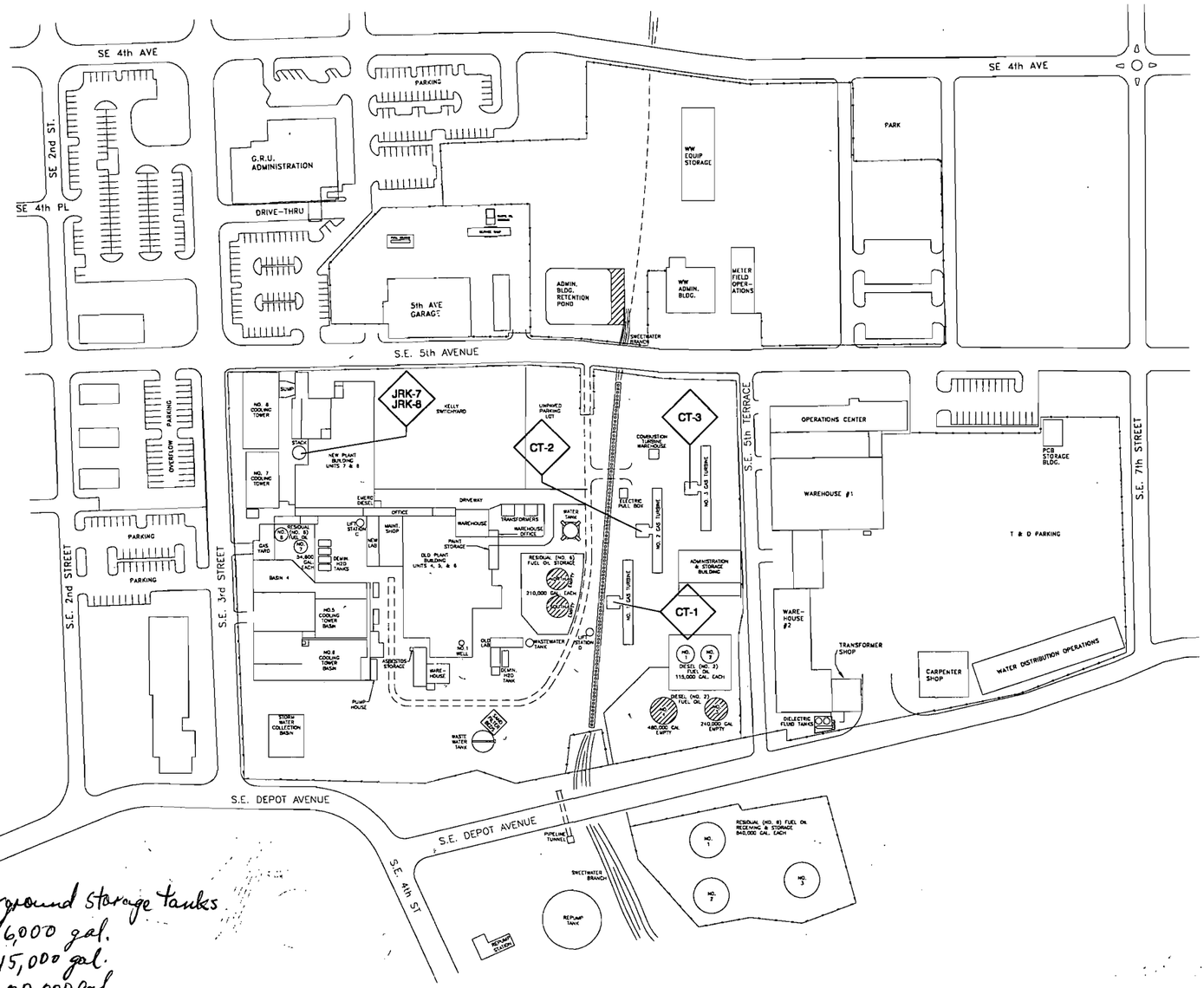
Combustion Turbines No. 1, 2, and 3

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range (MMBtu/hr)	Maximum Operating House		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 – 200.0	24	7	8,760
2	No. 2 Fuel Oil		0 – 207.0	24	7	8,760

GRAPHIC SCALE

0 50 100 200

SCALE IN FEET



LEGEND

JRK-7 — EMISSION POINT NUMBER AND LOCATION

Underground storage tanks
gas: 6,000 gal.
gas: 15,000 gal.
diesel: 20,000 gal.

(Portions based on original drawings by J.M.Reid)

DOCUMENT II.E.2. FACILITY PLOT PLAN

\JRKELLY\TITLE-V.DWG

REVISION	DATE
1)DELETE UNIT 6 STACK	09/15/97
2)CORRECT INDICATED LOCATION OF CT-2 EMISSION POINT	10/03/97

GRU

Q:\Stptan\JRKELLY\TITLE-V.dwg PLOTTED OCT.02,1997 4:30 PM C.A.O.

Phase II Permit Application

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

This submission is: [X] New [ ] Revised

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

Plant Name	State	ORIS Code
J.R. Kelly	FL	664

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

a	b	c	d	e
Boiler ID#	Compliance Plan: Unit Will Hold Allowances in Accordance with 40 CFR 72.9(c)(1)	Compliance Plan: Repowering Plan	New Units: Commence Operation Date	New Units: Monitor Certification Deadline
JRK8	Yes	NO		
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			
	Yes			

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

[ ] For each unit that will be repowered, the Repowering Extension Plan form is included and the Repowering Technology Petition form has been submitted or will be submitted by June 1, 1997.

Plant Name (from Step 1)

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

Standard Requirements

Permit Requirements.

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

Monitoring Requirements.

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

Sulfur Dioxide Requirements.

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

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

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

Plant Name (from Step 1)

Recordkeeping and Reporting Requirements (cont.)

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

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

Liability.

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

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

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

Certification

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

Name: John F. Hancock, Designated Representative	
Signature: J F Hancock	Date: 12/22/95

United States
Environmental Protection Agency
Acid Rain Program

OMB No. 2060-0221
Expires 6-30-95

Certificate of Representation

For more information, see instructions and refer to 40 CFR 72.24

This submission is: [X] New [ ] Revised

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

Plant Name	State	ORIS Code
J.R. Kelly (Generating Station)	FL	664

STEP 2
Enter requested information for the designated representative

Name: Mr. John F. Hancock, Jr.	
Address: Gainesville Regional Utilities P. O. Box 147117 (A132) Gainesville, FL 32614-7117	
904-334-3400 ext. 1712 Phone Number	904-334-2786 Fax Number

STEP 3
Enter requested information for the alternate designated representative (optional)

Name: Mr. Larry C. McDaniel	
Address: Gainesville Regional Utilities P. O. Box 147117 (JK33) Gainesville, FL 32614-7117	
904-334-2851 Phone Number	904-375-2232 Fax Number

STEP 4
Complete Step 5, read the certifications and sign and date

I certify that I was selected as the designated representative or alternate designated representative, as applicable, by an agreement binding on the owners and operators of the affected source and each affected unit at the source.

I certify that I have given notice of the agreement, selecting me as the designated representative or alternate designated representative, as applicable for the affected source and each affected unit at the source identified in this certificate of representation, daily for a period of one week in a newspaper of general circulation in the area where the source is located or in a State publication designed to give general public notice.

I certify that I have all necessary authority to carry out my duties and responsibilities under the Acid Rain Program on behalf of the owners and operators of the affected source and of each affected unit at the source and that each such owner and operator shall be fully bound by my actions, inactions, or submissions.

I certify that I shall abide by any fiduciary responsibilities imposed by the agreement by which I was selected as designated representative or alternate designated representative, as applicable.

I certify that the owners and operators of the affected source and of each affected unit at the source shall be bound by any order issued to me by the Administrator, the permitting authority, or a court regarding the source or unit.

Where there are multiple holders of a legal or equitable title to, or a leasehold interest in, an affected unit, or where a utility or industrial customer purchases power from an affected unit under life-of-the-unit, firm power contractual arrangements, I certify that:

I have given a written notice of my selection as the designated representative or alternate designated representative, as applicable, and of the agreement by which I was selected to each owner and operator of the affected source and of each affected unit at the source; and

Allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in proportion to each holder's legal, equitable, leasehold, or contractual reservation or entitlement or, if such multiple holders have expressly provided for a different distribution of allowances by contract, that allowances and the proceeds of transactions involving allowances will be deemed to be held or distributed in accordance with the contract.

The agreement by which I was selected as the alternate designated representative includes a procedure for the owners and operators of the source and affected units at the source to authorize the alternate designated representative to act in lieu of the designated representative.

J. R. Kelly (Generating Station)
Plant Name (from Step 1)

Certification

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

Signature (designated representative) [signature]	Date 2/21/94
Signature (alternate) [signature]	Date 2/21/94

STEP 5
Provide the name of every owner and operator of the source and each affected unit at the source. Identify the units they own and/or operate by boiler ID# from NADB. For owners only, identify each state or local utility regulatory authority with jurisdiction over each owner

Name: City of Gainesville Gainesville Regional Utilities					[X] Owner	[X] Operator
ID# JRK8	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities: Florida Public Service Commission (limited authority); City Commission of the City of Gainesville						

Name					[ ] Owner	[ ] Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

Name					[ ] Owner	[ ] Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

Name					[ ] Owner	[ ] Operator
ID#	ID#	ID#	ID#	ID#	ID#	ID#
ID#	ID#	ID#	ID#	ID#	ID#	ID#
Regulatory Authorities						

STEP 5 (optional)
Enter the source AIRS and FINDS identification numbers, if known

AIRS
FINDS