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 | | $\frac{d\eta}{dt}$ |
| 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 Region Gainesville, FL 32601 | al Utilities (GRU) | |
| Street Address or Other Locator: | 605 SE 3rd Street | |
| City: Gainesville | County: Alachua | Zip Code: 32601- |
| 5. Relocatable Facility? | - | 6. Existing Permitted Facility? |
| [] Yes [X] No | | [X] Yes [] No |

Owner/Authorized Representative or Responsible Official

| 1. Name and Title of Owner/Authorized Representative or Responsible Official: | | | | | | |
|---|--|--------------------------------------|--|--|--|--|
| | Michael L. Kurtz | | | | | |
| Title : | General Manager | | | | | |
| 2. Owner or Authorized Repre | 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 Represe | ntative or Responsible Officia | l Telephone Numbers : | | | | |
| Telephone | :(352)334-2811 | Fax: (352)334-2277 | | | | |
| 4. Owner/Authorized Represe | ntative or Responsible Officia | 1 Statement : | | | | |
| I, the undersigned, am th | ne owner or authorized repl | resentative* of the non-Title V sour | | | | |
| Signature | | Date | | | | |

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^{*} Attach letter of authorization if not currently on file.

Scope of Application

| | | | Permit |
|-----------|---------|-------------------------------|--------|
| Emissions | Unit ID | Description of Emissions Unit | 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 + | |

DEP Form No. 62-210.900(1) - Form

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:

I. Part 4 - 1

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| [] 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: |
| |
| I. Part 4 - 2 |

Effective: 3-21-96

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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.

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| 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: |

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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

Fax: (352)332-6722

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3. Professional Engineer Telephone Numbers:

Telephone: (352)332-0444

| 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. |

I. Part 6 - 1

Date

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Effective: 3-21-96

Signature

(seal)

* Attach any exception to certification statement.

I. Part 6 - 2

DEP Form No. 62-210.900(1) - Form

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

| Facility UTM Coordina |
|---|
|---|

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

4

4. Facility Status

5. Facility Major

6. Facility SIC(s):

Code:

Α

Group SIC Code:

49+

7. Facility Comment:

Facility Code:

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

3. Facility Contact Telephone Numbers:

Telephone:

(352)334-3400

Fax: (352)334-3151

II. Part 1 - 1

DEP Form No. 62-210.900(1) - Form

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

North (km):

East (km):

Facility, Location, and Type

Zone:

1. Facility UTM Coordinates:

| 2. Facility Latitude/Lon Latitude (DD/MM/S |): | | | |
|---|--------------------------|---------------------|--------------------------|---------------------|
| 3. Governmental Facility Code: | 4. Facility Status Code: | 5. Facilit Group | y Major SIC Code + | 6. Facility SIC(s): |
| 7. Facility Comment : | ı | | : : | |
| DEP Facility Comment | : | , | , t ! | . + |
| Facility Contact | | | 1 | |
| 1. Name and Title of Fa | cility Contact: | | | |
| | : | | | |
| 2. Facility Contact Mail | ing Address : | | | |
| Organization/Firm: | | | | |
| Street Address: | | | | |
| City: | f | | State: | Zip Code: |
| 3. Facility Contact Tele | phone Numbers: | | | |
| Telephone: | | Fax: | | |

II. Part 1 - 1

Property Boundary

| UTM Coordinates : | | | | | | | |
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| Zone: | + | East: | km | + | North: | km | + |
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| dentification of Building on l | Plot Plan or Flow D | iagram : | | | |
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| Building Height : | FT + | | | | |
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Building Boundary

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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 : | + |
| | |

II. Part 2 - 1

DEP Form No. 62-210.900(1) - Form

B. FACILITY REGULATIONS

List of Applicable Regulations

See Appendix A

II. Part 3b - 1

DEP Form No. 62-210.900(1) - Form

C. FACILITY POLLUTANTS

Facility Pollutant Information

| 1. Pollutant Emitted | 2. Pollutant Classification |
|----------------------|-----------------------------|
| NOX | A . |
| SO2 | A |
| PM10 | A |
| РМ | A |
| H107 HF | A |
| H106 \$C | A |
| со | A |

II. Part 4 - 1

DEP Form No. 62-210.900(1) - Form

| 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 maj | or source threshold. | |
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II. Part 4b - 1

DEP Form No. 62-210.900(1) - Form

| 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 maj | or source threshold. | |
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II. Part 4b - 2

DEP Form No. 62-210.900(1) - Form

| 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 | or source threshold. | |
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II. Part 4b - 3

DEP Form No. 62-210.900(1) - Form

| Facility Pollutant Information | Pollutant 4 | |
|--|---------------------|-------------|
| Pollutant Emitted PM : | | |
| 2. Requested Emissions Cap: | | |
| | (lbs/hour) | (tons/year) |
| 3. Basis for Emissions Cap Code: | | |
| 4. Facility Pollutant Comment : | 1.1.1. | |
| Facility potential emissions exceed majo | r source threshold. | |
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II. Part 4b - 4

DEP Form No. 62-210.900(1) - Form

| Facility Pollutant Information | Pollutant 5 | |
|---|-------------------------------------|-------------|
| 1. Pollutant Emitted H107 | | |
| • | | |
| 2. Requested Emissions Cap: | | |
| 2. Requested Emissions Cap. | (lbs/hour) | (tons/year) |
| | | |
| 3. Basis for Emissions Cap | | |
| Code: | | |
| 4. Facility Pollutant Comment: | | |
| Hydrogen Fluoride - Facility potential en | missions exceed major source thresh | old. |
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II. Part 4b - 5

DEP Form No. 62-210.900(1) - Form

| Facility Pollutant Information | Pollutant6 | |
|--|--|-------------|
| 1. Pollutant Emitted H106 | | |
| 2. Requested Emissions Cap: | | |
| | (lbs/hour) | (tons/year) |
| 3. Basis for Emissions Cap Code: | | |
| 4. Facility Pollutant Comment : | , t., j., j. | |
| Hydrogen Chloride - Facility potential e | missions exceed major source threshold | l . |
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II. Part 4b - 6

DEP Form No. 62-210.900(1) - Form

| 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 | or source threshold. | |
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II. Part 4b - 7

DEP Form No. 62-210.900(1) - Form

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 : | . 1 | I.E.7 |
|--|-----|------------|
| 8. List of Equipment/Activities Regulated under Title VI: | I | II.E.8 |
| 9. Alternative Methods of Operation : | Ŋ | NA . |
| 10. Alternative Modes of Operation (Emissions Trading): | N | NA . |
| 11. Identification of Additional Applicable Requirements : | A | Appendix A |
| 12. Compliance Assurance Monitoring Plan: | N | JA . |
| 13. Risk Management Plan Verification : | N | NA . |
| 14. Compliance Report and Plan : | II | I.E.14 |
| 15. Compliance Certification (Hard-copy Required): | II | .E.15 |

II. Part 5 - 1

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

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

| Emiss | ions Unit Information Section 1 |
|--------|---|
| Combu | estion Turbine No. 1 |
| Type o | of Emissions Unit Addressed in This Section |
| 1. Reg | gulated or Unregulated Emissions Unit? Check one: |
| [] | The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit. |
| MX X | The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |
| 2. Sin | gle 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. |
| | |

III. Part 1 - 1

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit Information Section | 1 |
|------------------|---------------------------------|---|
|------------------|---------------------------------|---|

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

Emissions Unit Description and Status

| Description of En Combustion Turbi | | Unit | Addressed in T | his Section: * | | |
|---------------------------------------|------------|--------|------------------------|----------------|--|---|
| Description of Emiss | | | IRS Tracking: | + | | |
| 2. Emissions Unit l | | | | * [] Ur | nknown | |
| 3. Emissions Unit Status Code: | A | * | 4. Acid Rain Unit? Yes | [X] No)* | 5. Emissions Unit Major Group SIC Code: 49 | + |
| 6. Emissions Unit (| Commen | t : | - | | | _ |
| DEP Emissions Unit | | | n Numbers for F | oo Durnosoo | | |
| Similar-Emissions Ur + | ut Identii | icatio | i ivumbers for F | æ ruiposes . | | |

III. Part 2 - 1

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Control Equipment 1 | <u> </u> | |
|------------------------------------|----------|--|
| 1. Description: | | |
| None | | |
| | • | |
| 2. Control Device or Method Code : | * | |
| | | |

Emissions Unit Information Section 1

Combustion Turbine No. 1

III. Part 3 - 1

DEP Form No. 62-210.900(1) - Form

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: カン/しと | |
| 2. Long-term Reserve Shutdown Date: | , |
| 3. Package Unit : | |
| Manufacturer: | Model Number : |
| 4. Generator Nameplate Rating: | MW |
| 5. Incinerator Information : | · , |
| Dwell Temperature : | Degrees Fahrenheit |
| Dwell Time : | Seconds |
| Incinerator Afterburner Temperature : | Degrees Fahrenheit |
| Emissions Unit Type Code: 49 + | |
| Ozone SIP Base Emissions Unit: + | |
| Emissions Unit Operating Capacity | |
| 1. Maximum Heat Input Rate: | mmBtu/hr |
| 2. Maximum Incinerator Rate : | lb/hr tons/day |
| 3. Maximum Process or Throughput Rate : | |
| 4. Maximum Production Rate: | |
| 5. Operating Capacity Comment : | |

III. Part 4 - 1

DEP Form No. 62-210.900(1) - Form

Emissions Unit Operating Schedule

| days/week | |
|------------|--|
| hours/year | |
| | |

III. Part 4 - 2

DEP Form No. 62-210.900(1) - Form

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Emissions Unit Information Section | 1 |
|---|---|
| Combustion Turbine No. 1 | |

Rule Applicability Analysis

| | Allen of the Allender Company |
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III. Part 6a - 1

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

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: 人名伊克 人名克格斯阿里 人名伊格 5. Discharge Type Code: 1: 11 6. Stack Height: feet · Caller 7. Exit Diameter: feet 8. Exit Temperature : 9. Actual Volumetric Flow Rate: acfm the profession of the start of 10. Percent Water Vapor: 11. Maximum Dry Standard Flow Rate: dscfm 12. Nonstack Emission Point Height: feet "我们的一点"的现在分词 13. Emission Point UTM Coordinates: Zone: East (km): North (km): Good Engineering Practice Stack Height:

III. Part 7a - 1

· "我我们是一个人的人。"

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

14. Emission Point Comment :

From permit

max heat input is 200 MMB10/hi

LHV for Natural Gos

lange 900 - 1100

application provide 1040

May Hart. Max Capathy 200 ms

May. Ho. rate = Max capacity = 200 months security

fuel healthysist 1040 her months

= .192 Sec mint

F. SEGMENT (PROCESS/FUEL) INFORMATION

| Emissions Unit Information Section | - |
|--|--|
| Combustion Turbine No. 1 | |
| Segment Description and Rate: Segment | |
| 1. Segment Description (Process/Fuel Type and | Associated Operating Method/Mode): |
| Natural gas burned in Combustion Turbine No. 1 | |
| 2. Source Classification Code (SCC): 2-01-0 | 002-01 * |
| k milia i india xidia di h | n, 1 1 2 |
| 3. SCC Units: Million Cubic Feet Burned (all ga | eous fiels) |
| 5. 500 Olito. Hamion Cubic 1000 Bullion (un ga | 140.5) |
| in higher former and the state of | |
| 4. Maximum Hourly Rate: 0.19 | 5. Maximum Annual Rate : |
| | |
| 6. Estimated Annual Activity Factor: | ia. |
| and the state of the state of the state of | The middle of the territory |
| 7. Maximum Percent Sulfur: Percent Sulfur Limit: + + | 8. Maximum Percent Ash: |
| O NEW Dill COOK III | |
| 9. Million Btu per SCC Unit 1,040) | |
| 9. Million Btu per SCC Unit: 1,040 | HELL HERELY A |
| 10. Segment Comment: | |
| Maximum hourly and annual rates (Fields 4 and 5 fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9 Fuel heat content (Field 9) is a nominal value. |) based on base load conditions at 80oF, 14.7 psia, and based on heat input of 200 MMBtu/hr. |
| | |

'III. Part 8 - 1

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

Max lir rate find heat input = 207 hr

140 mm BTy

Scc

1.47 Sec

,

.

,

F. SEGMENT (PROCESS/FUEL) INFORMATION

| Emissions Unit Information Section 1 | _ |
|--|--|
| Combustion Turbine No. 1 | • |
| Segment Description and Rate: Segment | |
| 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 liq | uid 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 fuel lower heating value. Maximum hourly and annual rates (Fields 4 and Fuel heat content (Field 9) is a nominal value. | 5) based on base load conditions at 80oF, 14.7 psia, and 9) based on heat input of 207 MMBtu/hr. |

III. Part 8 - 2

DEP Form No. 62-210.900(1) - Form

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 | Pollutant Regulatory Code |
|----------------------|--|--|-------------------------------|
| 8 - SO2 * | * | | NS |
| 1 - CO * | * | | NS |
| 2 - NOX * | | | NS |
| 3 - PM * | * | 19 19 19 19 19 19 19 19 19 19 19 19 19 1 | NS |
| 4 - PM10 * | * | | NS |
| 5 - VOC * | ₩ 1 • • • • • • • • • • • • • • • • • • • | (N) | NS |
| 6 - H106 * | : | | NS |
| 7 - H107 * | * | | NS |

III. Part 9a - 1

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 1 | | • |
|---|-------------------------|-----|-----------|
| Combustion Turbine No. 1 | | | |
| Pollutant Detail Information: | Pollutant | 1 | |
| 1. Pollutant Emitted: CO * | | | |
| 2. Total Percent Efficiency of Control: | g | /o | |
| 3. Potential Emissions : | | 1 | |
| · | lb/hour | to | ns/year |
| 4. Synthetically Limited? | • • | j. | |
| [] Yes [] No | | : | |
| 5. Range of Estimated Fugitive/Other En | nissions: | | |
| | | to | tons/year |
| 6. Emissions Factor: | | | · |
| Reference: | | | · |
| Unit Code : | +* | | |
| 7. Emissions Method Code : * | , | | , |
| 8. Calculations of Emissions : | | ı | |
| : | | i | |
| 9. Pollutant Potential/Estimated Emission | ns Comment : | | |
| Potential emissions exceed threshold amo | ount - no emission limi | ts. | |

III. Part 9b - 1

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit Information | Section | 1 | | | |
|------------------|---------------------------------------|---------------|-----------------------|--|---|-----------|
| Combustion | Turbine No. 1 | | | | | • |
| Pollutant ! | Detail Information | <u>:</u> | Pollutant | 2 | | |
| 1. Polluta | nt Emitted: NOX | * | | | | |
| 2. Total I | Percent Efficiency of | f Control: | · | % | | |
| 3. Potenti | al Emissions : | | | | | |
| | | | lb/hour | | tons/year | |
| 4. Synthe | tically Limited? | 01 11 10 10 | | The state of the s | | |
| | of Estimated Fugitiv | | | ! | | |
| | | . " | | to | | tons/year |
| 1 | ons Factor : Reference : | | | | | |
| | Unit Code: | Ì | + | * | | |
| 7. Emissic | ons Method Code : | ± (0) | | · | | |
| 8. Calcula | tions of Emissions | | | | | |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 | · 1 4 1 4 14 15 1 1 2 | , | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| 9. Polluta | nt Potential/Estimat | | | | | |
| Potent | al emissions exceed t | hreshold amou | nt - no emission li | mits. | | |

III. Part 9b - 2

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 1 | : | | | |
|---|--------------------|------------|----|-----------|-----------|
| Combustion Turbine No. 1 | | 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 En | nissions: | | | | |
| | | | to | | tons/year |
| 6. Emissions Factor : | | | | | |
| Reference: | | | | | |
| Unit Code : | - | + * | | | |
| 7. Emissions Method Code: | • | | | | |
| 8. Calculations of Emissions: | | | | | |
| | | | | | |
| 9. Pollutant Potential/Estimated Emission | ns Comment : | | | | |
| Potential emissions exceed threshold amo | ount - no emission | limits. | | | |

III. Part 9b - 3

DEP Form No. 62-210.900(1) - Form

| 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 | te | ons/year |
| 4. Synthetically Limited? | | R S S S S S S S S S S S S S S S S S S S | |
| [] Yes [] No | | A STATE OF THE STA | |
| 5. Range of Estimated Fugitive/Other E | missions: | | |
| , | | to | tons/year |
| 6. Emissions Factor: | | | |
| Reference : | | | |
| Unit Code: | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| | | | |
| | | | |
| 9. Pollutant Potential/Estimated Emissio | | * * | |
| Potential emissions exceed threshold am | ount - no emission li | mits. | |

III. Part 9b - 4

DEP Form No. 62-210.900(1) - Form

| 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 | tor | ns/year |
| 4. Synthetically Limited? [] Yes [] No | | | |
| 5. Range of Estimated Fugitive/Other En | missions: | to | tons/year |
| 6. Emissions Factor: Reference: Unit Code: | + | * | · |
| 7. Emissions Method Code: | • | | |
| 8. Calculations of Emissions: | | | |
| 9. Pollutant, Potential/Estimated Emission Potential emissions exceed threshold am | • | | |
| | | | |

III. Part 9b - 5

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 1 | | |
|--|--|------|
| Combustion Turbine No. 1 | - | |
| Pollutant Detail Information: Pollu | utant 6 | • |
| 1. Pollutant Emitted: H106 * | | |
| 2. Total Percent Efficiency of Control: | % | |
| 3. Potential Emissions: | | |
| lb/hour | tons/year | ٠. |
| 4. Synthetically Limited? [] Yes [] No | The party of the same of the s | |
| 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 Commen | | |
| Hydrogen Chloride: potential emissions exceed thresh | hold amount - no emission limits. | |

III. Part 9b - 6

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 1 | | |
|---|---------------------|--------------------------|-----------|
| Combustion Turbine No. 1 | | | |
| Pollutant Detail Information: | Pollutant | | |
| 1. Pollutant Emitted: H107 * | | | |
| 2. Total Percent Efficiency of Control: | | % | |
| 3. Potential Emissions : | | | |
| | lb/hour | ton | s/year |
| 4. Synthetically Limited? | 1 - 1 - 4 | 11, 10, 10 | |
| [] Yes [] No | | $t_{r-1, r-1}^{\dagger}$ | |
| 5. Range of Estimated Fugitive/Other E | Emissions: | | |
| | | to | tons/year |
| 6. Emissions Factor: | | | |
| Reference: | | | |
| Unit Code: | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| | , | . 3 | |
| 9. Pollutant Potential/Estimated Emission | ons Comment : | , , | |
| Hydrogen Fluoride: potential emissions | exceed threshold am | ount - no emission limit | s.` |

III. Part 9b - 7

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Sect | ion 1 | | |
|---|-------------------|-----------|-----------|
| Combustion Turbine No. 1 | | | |
| Pollutant Detail Information: | Pollutant | 8 | |
| 1. Pollutant Emitted : SO2 | * | | |
| 2. Total Percent Efficiency of Con | ntrol : | % | |
| 3. Potential Emissions: | | | |
| | • | tons/y | |
| 4. Synthetically Limited? [] Yes [] No | The second of | The house | , |
| 5. Range of Estimated Fugitive/O | ther Emissions: | | |
| 1 1 | | to | tons/year |
| 6. Emissions Factor : Reference : | | ì | |
| Unit Code: | + | .★ | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| 1 u | <u> </u> | nt i | |
| 9. Pollutant Potential/Estimated E | missions Comment: | | |
| Potential emissions exceed thresh | | | |
| • 1 | | | |

III. Part 9b - 8

DEP Form No. 62-210.900(1) - Form

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

| Emissic | ons Unit Information Section 1 |
|----------|--|
| Combus | tion Turbine No. 1 |
| PSD In | crement Consumption Determination |
| 1. Incre | ement Consuming for Particulate Matter or Sulfur Dioxide? |
| re | he emissions unit is undergoing PSD review as part of this application, or has undergone PSD eview previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes acrement. |
| pa th | he facility addressed in this application is classified as an EPA major source pursuant to aragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and he emissions unit addressed in this section commenced (or will commence) construction after anuary 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment. |
| en | the facility addressed in this application is classified as an EPA major source, and the missions unit began initial operation after January 6, 1975, but before December 27, 1977. If by, baseline emissions are zero, and emissions unit consumes increment. |
| | or any facility, the emissions unit began (or will begin) initial operation after December 27, 177. If so, baseline emissions are zero, and emissions unit consumes increment. |
| su w | one of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In ach case, additional analysis, beyond the scope of this application, is needed to determine hether changes in emissions have occurred (or will occur) after the baseline date that may onsume or expand increment. |

III. Part 12 - 1

DEP Form No. 62-210.900(1) - Form

| 2. | In | crement Consu | ıming fo | r Nitrogen Dioxid | e ? | | |
|-----|----|--------------------------------|------------------|---|------------|---|---|
| [|] | | r has un | dergone PSD revie | | s undergoing PSD reviewiously, for nitrogen d | ew as part of this lioxide. If so, emissions |
|] |] | paragraph (c) the emissions | of the dunit add | efinition of "major lressed in this sect | sourc | mmenced (or will com | or source pursuant to hapter 62-213, F.A.C., and mence) construction after init consumes increment. |
| [|] | emissions unit | t began | initial operation af | ter Fe | assified as an EPA major bruary 8, 1988, but be it consumes increment | fore March 28, 1988. If so, |
| [|] | _ | - | _ | | will begin) initial opera | ation after March 28, 1988. ement. |
| [X | [] | case, addition | al analy | sis, beyond the sco | pe of | this application, is nee | unit are nonzero. In such ded to determine whether date that may consume or |
| | | | | \$ | | ٠., | |
| 3. | In | acrement Consu | uming/E | xpanding Code: | | | |
| | | PM : | U | SO2 : | U | NO2 : | U |
| 4. | В | aseline Emissio | ons : | | | | |
| | | PM : | | lb/hour | | | tons/year |
| | | SO2 : | | lb/hour | | | tons/year |
| | | NO2: | | | | | tons/year |

III. Part 12 - 2

DEP Form No. 62-210.900(1) - Form

5. PSD Comment:

III. Part 12 - 3

DEP Form No. 62-210.900(1) - Form

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): |
| |

III. Part 13 - 1

DEP Form No. 62-210.900(1) - Form

| 12. | Identification of Additional Applicable Requirements: |
|-------------|---|
| 13. Plai | Compliance Assurance Monitoring |
| 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.) |

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

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

| Emissi | ons Unit Information Section 2 |
|---------|---|
| Combus | stion Turbine No. 2 |
| Type o | f Emissions Unit Addressed in This Section |
| 1. Reg | ulated 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. Sing | gle 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. |

III. Part 1 - 2

DEP Form No. 62-210.900(1) - Form

| 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 Combustion Turbine No. 2 | Addressed in This Section: * | |
|--|--------------------------------------|---|
| Description of Emissions Unit for A Combustion Turbine No. 2 | IRS Tracking: + | |
| Emissions Unit Identification No Corresponding I | | nknown |
| 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 + | n Numbers for Fee Purposes : | |

III. Part 2 - 2

DEP Form No. 62-210.900(1) - Form

| Combustion Turbine No. 2 | |
|--------------------------------------|--|
| Emissions Unit Control Equipment 1 | |
| 1. Description: | |
| None | |
| | |
| 2. Control Device or Method Code : * | |
| | |

Emissions Unit Information Section 2

III. Part 3 - 2

DEP Form No. 62-210.900(1) - Form

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

| 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 : Degrees Fahrenheit | t , |
| Dwell Time : Seconds | |
| Incinerator Afterburner Temperature : Degrees Fahrenheit | t |
| 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/da | ay |
| 3. Maximum Process or Throughput Rate : | |
| 4. Maximum Production Rate : | |
| 5. Operating Capacity Comment : | |

III. Part 4 - 3

DEP Form No. 62-210.900(1) - Form

Emissions Unit Operating Schedule

| Requested Maximum Operatir | ng Schedule : | |
|----------------------------|---------------|-------------------------|
| | hours/day | days/week hours/year |
| | weeks/year | hours/year |
| | | |

III. Part 4 -

DEP Form No. 62-210.900(1) - Form

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

III. Part 6a - 2

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

| mission Point | Description and Type : | |
|-------------------|---|--------------------------------|
| 1. Identification | n of Point on Plot Plan or Flow Diagram | 1: |
| 2. Emission Po | oint Type Code : | * * |
| 3. Descriptions | of Emission Points Comprising this Er | missions Unit : |
| 4. ID Numbers | or Descriptions of Emission Units with | this Emission Point in Common: |
| i, | English Committee Committee | |
| 5. Discharge T | ype Code : | |
| 6. Stack Heigh | | feet |
| 7. Exit Diamete | | feet |
| 8. Exit Temper | | °F * |
| 9. Actual Volun | netric Flow Rate : | acfm |
| 10. Percent Wa | ater Vapor : | % |
| | Dry Standard Flow Rate : | dscfm |
| 12. Nonstack E | mission Point Height : | feet |
| 13. Emission P | oint UTM Coordinates : | |
| Zone : | East (km): | North (km): |
| Good Engineeri | ng Practice Stack Height : | + . |

III. Part 7a - 3

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Combustion Turbine No. 2

| 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. |

III. Part 8 - 3

DEP Form No. 62-210.900(1) - Form

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 A | Associated Operating Method/Mode): |
| No. 2 fuel oil burned in Combustion Turbine No. 2 | |
| 2. Source Classification Code (SCC): 2-01-0 | 01-01 * |
| | |
| 3. SCC Units: Thousand Gallons Burned (all liqu | id fuels) |
| 3. See Chits. Thousand Ganons Burned (an inqu | id fucisy |
| e e jû | |
| 4. Maximum Hourly Rate: 1.48 | 5. Maximum Annual Rate: |
| 6. Estimated Annual Activity Factor: | |
| 7. Maximum Percent Sulfur: 0.50 | 8. Maximum Percent Ash: 0.10 |
| Percent Sulfur Limit : + | |
| | |
| 9. Million Btu per SCC Unit: 140 | |
| | |
| 10. Segment Comment : | |
| Maximum hourly and annual rates (Fields 4 and 5) fuel lower heating value. Maximum hourly and annual rates (Fields 4 and 9) Fuel heat content (Field 9) is a nominal value. | based on base load conditions at 80oF, 14.7 psia, and based on heat input of 207 MMBtu/hr |

III. Part 8 - 4

DEP Form No. 62-210.900(1) - Form

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

| Emissions Unit Information Section | 2 |
|---|---|
| Combustion Turbine No. 2 | |

| 1. Pollutant Emitted | Primary Control Device Code | Secondary Control Device Code | 4. Pollutant Regulatory Code |
|----------------------|---------------------------------|--|------------------------------|
| 8 - SO2 * | * | | NS |
| 1 - CO * | * | | NS |
| 2 - NOX * | A CANAGE PERSON | The state of the s | NS |
| 3 - PM * | tagista di daft | 141 } | NS |
| 4 - PM10 * | • | · | NS |
| 5 - VOC * | (Alice problem) | e de la Caralle | NS |
| 6 - H106 * | * | | NS |
| 7 - H107 * | * | | NS |

III. Part 9a - 2

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Sec | tion 2 | | |
|---------------------------------------|------------------------------|--|-----------|
| Combustion Turbine No. 2 | | | |
| Pollutant Detail Information: | Pollutant | ; | |
| 1. Pollutant Emitted: CO | * | | |
| 2. Total Percent Efficiency of Co | ontrol: | % | |
| 3. Potential Emissions: | | | |
| | lb/hour | tons/yea | |
| 4. Synthetically Limited? W | | The state of the s | |
| 5. Range of Estimated Fugitive/C | Other Emissions: | to | tons/year |
| 6. Emissions Factor : Reference : | - | | |
| Unit Code: | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| | Zurianiana C amanana | * 9, 3 | |
| 9. Pollutant Potential/Estimated I | Emissions Comment: | | |
| Potential emissions exceed thres | hold amount - no emission li | imits. | |

III. Part 9b - 9

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 2 | | |
|---|----------------------|--------|-----------|
| Combustion Turbine No. 2 | | · | |
| Pollutant Detail Information: | Pollutant | | |
| 1. Pollutant Emitted: NOX * | | | |
| 2. Total Percent Efficiency of Control: | | % | |
| 3. Potential Emissions : | | | |
| | lb/hour | to | ons/year |
| 4. Synthetically Limited? [] Yes [] No | | i | |
| 5. Range of Estimated Fugitive/Other En | nissions: | | |
| | | to | tons/year |
| 6. Emissions Factor | | | |
| Reference : | | | |
| Unit Code : | + | * | |
| 7. Emissions Method Code: | 5.5.5.5.5 | | |
| 8. Calculations of Emissions: | | · | |
| O Belleses Betonticl/Cations of C | - Comment | | |
| 9. Pollutant Potential/Estimated Emission | is Comment: | | |
| Potential emissions exceed threshold amo | ount - no emission l | imits. | |

III. Part 9b - 10

DEP Form No. 62-210.900(1) - Form

| 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? | | | |
| 5. Range of Estimated Fugitive/Other E | missions: | to | tons/year |
| 6. Emissions Factor Reference Unit Code: | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | ، الأوراد والمائي | t si sa | |
| 9. Pollutant Potential/Estimated Emissic Potential emissions exceed threshold an | | • * * * * * * * * * * * * * * * * * * * | |

III. Part 9b - 11

The state of the s

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Se | CHOII | 2 | | | |
|--------------------------------------|------------|---------------------|--------|-----------|-----------|
| Combustion Turbine No. 2 | | | | | |
| Pollutant Detail Information: | | Pollutant | 4 | | |
| 1. Pollutant Emitted : PM10 | * | | | | |
| 2. Total Percent Efficiency of C | ontrol : | | % | | |
| 3. Potential Emissions: | | | | | |
| | | lb/hour | | tons/year | |
| 4. Synthetically Limited? | | | | | |
| [] Yes [] No | | | | | |
| 5. Range of Estimated Fugitive/ | Other Em | issions: | | | |
|) : | | | to | | tons/year |
| 6. Emissions Factor: | | | | | |
| Reference: | | | | | |
| Unit Code : | | . + | * | | |
| 7. Emissions Method Code: | * | | | | |
| 8. Calculations of Emissions : | | | | | |
| 9. Pollutant Potential/Estimated | | | | | |
| Potential emissions exceed thre | shold amou | unt - no emission l | imits. | | |

III. Part 9b - 12

DEP Form No. 62-210.900(1) - Form

| 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? | <u>. </u> | | | |
| [] Yes [] No | | , | | |
| 5. Range of Estimated Fugitive/Other En | nissions: | | | |
| | | to | | tons/year |
| 6. Emissions Factor : | | | | |
| Reference: | | | | |
| Unit Code : | + | * | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions: | | | · | |
| | , | | | |
| 9. Pollutant Potential/Estimated Emission | s Comment: | | | |
| Potential emissions exceed threshold amo | ount - no emission l | imits. | | |

III. Part 9b - 13

DEP Form No. 62-210.900(1) - Form

| 1. Pollutant Emitted: H106 * 2. Total Percent Efficiency of Control: % 3. Potential Emissions: lb/hour tons/year 4. Synthetically Limited? No | |
|--|---------|
| 1. Pollutant Emitted: H106 * 2. Total Percent Efficiency of Control: % 3. Potential Emissions: lb/hour tons/year 4. Synthetically Limited? lb/hour tons/year 5. Range of Estimated Fugitive/Other Emissions: to ton 6. Emissions Factor: Reference: Unit Code: +* 7. Emissions Method Code: * | |
| 2. Total Percent Efficiency of Control: Synthetically Limited? Syn | |
| 3. Potential Emissions: lb/hour tons/year | |
| 4. Synthetically Limited? [] Yes | |
| 4. Synthetically Limited? [] Yes | |
| 5. Range of Estimated Fugitive/Other Emissions: to ton 6. Emissions Factor: Reference: Unit Code: +* 7. Emissions Method Code: * | |
| 6. Emissions Factor: Reference: Unit Code: +* 7. Emissions Method Code: * | |
| 6. Emissions Factor: Reference: Unit Code: +* 7. Emissions Method Code: * | |
| Reference: Unit Code: +* 7. Emissions Method Code: * | ns/year |
| 7. Emissions Method Code: * | |
| | - |
| 9 Coloulations of Emissions | |
| 8. Calculations of Emissions . | |
| | |
| The state of the s | |
| 9. Pollutant Potential/Estimated Emissions Comment: | |
| Hydrogen Chloride: potential emissions exceed threshold amount - no emission limits. | |

III. Part 9b - 14

DEP Form No. 62-210.900(1) - Form

| 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 | | ٠ | | 1 | |
| 5. Range of Estimated Fugitive/Other E | missions: | | | | |
| | | | to | tons/y | ear |
| 6. Emissions Factor : | | | | | |
| Reference | | | 1 | | |
| Unit Code: | + | * | | | |
| 7. Emissions Method Code: | * | | | | |
| 8. Calculations of Emissions: | | | | | 3 |
| | | | | | |
| 9. Pollutant Potential/Estimated Emissic | ons Comment : | | | | |
| Hydrogen Fluoride: potential emissions | exceed threshold ame | ount - no | emission | limits. | |

III. Part 9b - 15

DEP Form No. 62-210.900(1) - Form

| 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 En | nissions: | | | |
| | | to | | tons/year |
| 6. Emissions Factor : | | | | |
| Reference: | | | | |
| Unit Code: | + | * | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions : | | - | | |
| | | | | |
| | | | | |
| 9. Pollutant Potential/Estimated Emission | as Comment: | | | |
| Potential emissions exceed threshold amo | ount - no emission l | mits. | | |
| | | | | |

III. Part 9b - 16

DEP Form No. 62-210.900(1) - Form

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

| Emi | ssions Unit Information Section 2 |
|--------------|--|
| Com | bustion Turbine No. 2 |
| <u>PSD</u> | Increment Consumption Determination |
| 1. I | ncrement 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. |
| | |

III. Part 12 - 4

DEP Form No. 62-210.900(1) - Form

| 2. | In | crement Consuming for N | itrogen Dioxid | le? | | |
|-----|-----|--|-------------------------------------|----------|---|--|
|] |] | The emissions unit address application, or has undergunit consumes increment. | gone PSD revi | | | - |
|] |] | | ition of "major sed in this sect | source | of air pollution" in C menced (or will com | Chapter 62-213, F.A.C., and immence) construction after |
| [|] | The facility addressed in emissions unit began initial baseline emissions are zero | ial operation at | ter Febr | uary 8, 1988, but be | fore March 28, 1988. If so |
|] |] | For any facility, the emissions a | _ | • | - , | ation after March 28, 1988. ement. |
| [X | [] | case, additional analysis, | beyond the sco | pe of th | is application, is nee | unit are nonzero. In such eded to determine whether e date that may consume or |
| 3. | Ir | ncrement Consuming/Expa | inding Code : | _ | | |
| | | PM: U | SO2: | U | NO2: | U |
| 4. | В | aseline Emissions: | | | | |
| | | PM : | lb/hour | | | tons/year |
| | | SO2: | lb/hour | | | tons/year |
| | | NO2 : | | | | tons/year |

III. Part 12 - 5

DEP Form No. 62-210.900(1) - Form

| 5. | PSD Comment: | • | | | |
|----|--------------|---|--|--|--|
| | | | | | |
| | | | | | |

III. Part 12 - 6

DEP Form No. 62-210.900(1) - Form

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 : |
| the first terms of the second |
| 4. Description of Stack Sampling Facilities : |
| and the section of th |
| 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): |
| III. Part 13 - 3 |

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| 12. | Identification of Additional Applicable Requirements: |
|-------------|---|
| 13. Plar | Compliance Assurance Monitoring n: |
| 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.)

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

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

| Emis | ssio | ons Unit Information Section 3 |
|-------|------------|---|
| Comb | bust | ion Turbine No. 3 |
| Туре | e of | Emissions Unit Addressed in This Section |
| 1. R | egu | lated 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. Si | ingl | e 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. |

III. Part 1 - 3

DEP Form No. 62-210.900(1) - Form

| 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 Combustion Turbine No. 3 | Addressed in This Section: * | , |
|--|--------------------------------------|--|
| Description of Emissions Unit for Al Combustion Turbine No. 3 | IRS Tracking: + | |
| 2. Emissions Unit Identification I [] No Corresponding I | | 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: | |

III. Part 2 - 3

DEP Form No. 62-210.900(1) - Form

| Combustion Turbine No. 3 | | | |
|------------------------------------|---|--|---|
| Emissions Unit Control Equipment 1 | _ | | • |
| 1. Description : | | | |
| None | | | |
| | | | |
| 2. Control Device or Method Code: | * | | |
| | | | |

III. Part 3 - 3

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

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

| Emissions Unit Information Section | 3 | ı |
|---|----------|--------------------|
| 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: | | Degrees Fahrenheit |
| Dwell Time : | | Seconds |
| Incinerator Afterburner Temperature : | | Degrees Fahrenheit |
| Emissions Unit Type Code : 49 + | | |
| Ozone SIP Base Emissions Unit : + | 1 | |
| 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 : | | 1 |
| 5. Operating Capacity Comment : | | |
| | | |

III. Part 4 - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Operating Schedule

| Requested Maximum Operating Schedule: | |
|---------------------------------------|------------|
| hours/day | days/week |
| weeks/year | hours/year |

III. Part 4 - 6

DEP Form No. 62-210.900(1) - Form

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Emissions Unit Information Section Combustion Turbine No. 3 | |
|--|--|
| Rule Applicability Analysis | |
| | |
| ,1 | |
| | |
| | |
| 1 | |
| | |
| | |

III. Part 6a - 3

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

| ngram : |
|---|
| * |
| nis Emissions Unit : |
| with this Emission Point in Common: |
| |
| |
| feet |
| feet (control of the control of the |
| °F * |
| acfm |
| % |
| dscfm |
| feet |
| |
| North (km) : |
| + |
| |

III. Part 7a - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Combustion Turbine No. 3

14. Emission Point Comment:

F. SEGMENT (PROCESS/FUEL) INFORMATION

| Emissions Unit Information Section 3 | _ |
|---|--|
| Combustion Turbine No. 3 | |
| Segment Description and Rate: Segment | 1 |
| Segment Description and Nate. | |
| 1. Segment Description (Process/Fuel Type and | Associated Operating Method/Mode): |
| Natural gas burned in Combustion Turbine No. 3 | |
| | |
| 2. Source Classification Code (SCC): 2-01-0 |)02-01 * |
| | |
| 3. SCC Units: Million Cubic Feet Burned (all ga | seous field |
| 3. See Onits . Willion Cubic Feet Burnet (an ga | scous fucisy |
| 4. Maximum Hourly Rate: 0.19 | |
| 4. Maximum Hourly Rate: 0.19 | 5. Maximum Annual Rate : |
| | · |
| 6. Estimated Annual Activity Factor : | |
| • | |
| 7. Maximum Percent Sulfur : | 8. Maximum Percent Ash: |
| Percent Sulfur Limit : + | |
| | |
| 9. Million Btu per SCC Unit: 1,040 | |
| | AND THE STATE OF T |
| 10. Segment Comment : | · |
| 1 | i) 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 MMRtu/hr |
| Fuel heat content (Field 9) is a nominal value. | of based on near input of 200 Minibulin. |
| | |

III. Part 8 - 5

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Sect | tion 3 | | |
|------------------------------------|--|---|-----------|
| Combustion Turbine No. 3 | | | |
| Pollutant Detail Information: | Pollutant | 1 | |
| 1. Pollutant Emitted: CO | * | | |
| 2. Total Percent Efficiency of Con | ntrol: % | 6 | |
| 3. Potential Emissions: | | | |
| | lb/hour | tons/year | r |
| 4. Synthetically Limited? | pt files in the file of the file and the second | All Anthropology of | |
| 5. Range of Estimated Fugitive/O | ther Emissions: | | |
| 11-11 | · · · · · · · · · · · · · · · · · · · | to | tons/year |
| 6. Emissions Factor : Reference | 1.1.1 | | |
| Unit Code: | +* | | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| | | | |
| | The state of the s | Victorial Control of the Control of | |
| 9. Pollutant Potential/Estimated E | imissions Comment | Maria Maria | • |
| Potential emissions exceed thresh | nold amount - no emission limit | S. . | |
| | | | |

III. Part 9b - 17

DEP Form No. 62-210.900(1) - Form

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 | Secondary Control Device Code | 4. Pollutant Regulatory Code |
|----------------------|--------------------------------|---|------------------------------|
| 8 - SO2 * | * | | NS |
| 1 - CO * | * | | NS |
| 2 - NOX * | , | 11848 | NS |
| 3 - PM * | recept a dete | - · · · · · · · · · · · · · · · · · · · | NS |
| 4 - PM10 * | * | | NS |
| 5 - VOC * | # - 4 × 1 | Art Land | NS |
| 6 - H106 * | * | | NS |
| 7 - H107 * | * | | NS |

III. Part 9a - 3

DEP Form No. 62-210.900(1) - Form

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| Emissions Unit Information Section | 3 | | |
|---|------------------------|--------|-----------|
| Combustion Turbine No. 3 | | • | |
| Pollutant Detail Information: | Pollutant | | |
| 1. Pollutant Emitted: NOX * | | | |
| 2. Total Percent Efficiency of Control | : | % | |
| 3. Potential Emissions: | | | |
| | lb/hour | t | ons/year |
| 4. Synthetically Limited? | | | |
| [] Yes [] No | | | |
| 5. Range of Estimated Fugitive/Other | Emissions: | | |
| | | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | | | |
| Unit Code: | 4 | -# | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| · | | | |
| 9. Pollutant Potential/Estimated Emiss | ions Comment : | | |
| Potential emissions exceed threshold a | amount - no emission l | imits. | |

III. Part 9b - 18

DEP Form No. 62-210.900(1) - Form

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 * |
| g of the second |
| 3. SCC Units: Thousand Gallons Burned (all liquid fuels) |
| , 1 |
| 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. |

III. Part 8 - 6

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 3 | | | |
|---|----------------------|-------|-----------|--|
| Combustion Turbine No. 3 | | | | |
| Pollutant Detail Information: | Pollutant | 3 | | |
| 1. Pollutant Emitted: PM * | | 1 | | |
| 2. Total Percent Efficiency of Control: | | % | | |
| 3. Potential Emissions : | lb/hour | | tons/year | |
| 4. Synthetically Limited? [] Yes [] No | | | | |
| 5. Range of Estimated Fugitive/Other Em | issions: | to | tons/year | |
| 6. Emissions Factor : Reference : \tag{Unit Code :} | + | * | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emissions | s Comment : | | | |
| Potential emissions exceed threshold amount | unt - no emission li | mits. | | |

III. Part 9b - 19

DEP Form No. 62-210.900(1) - Form

| 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 Em | issions: | | | |
| | | to | | tons/year |
| 6. Emissions Factor : | | | | |
| Reference: | | | | |
| Unit Code : | + | * | | |
| 7. Emissions Method Code: * | | | | |
| 8. Calculations of Emissions: | | | | |
| | | | | |
| | | 1 | | |
| 9. Pollutant Potential/Estimated Emission | s Comment : | | | |
| Potential emissions exceed threshold amo | unt - no emission li | imits. | | |

III. Part 9b - 20

DEP Form No. 62-210.900(1) - Form

| 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 E | missions: | | |
| | | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | | | |
| Unit Code : | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| 9. Pollutant Potential/Estimated Emission | ons Comment : | | |
| Potential emissions exceed threshold am | nount - no emission l | imits. | |

III. Part 9b - 21

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section Combustion Turbine No. 3 | 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 En | nissions: | t | o | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | + | · * . | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emission | ns Comment : | | | |
| Hydrogen Chloride: potential emissions e | exceed threshold an | ount - no en | nission limits. | |

III. Part 9b - 22

DEP Form No. 62-210.900(1) - Form

| missions Unit Information Section | 3 | | |
|--|------------------------|---|-----------|
| Combustion Turbine No. 3 | | | |
| ollutant Detail Information: | Pollutant | 7 | |
| Pollutant Emitted: H107 * | | | |
| . Total Percent Efficiency of Control: | | % | |
| Potential Emissions : | | | |
| | lb/hour | | ns/year |
| Synthetically Limited? | Contract to the second | Total Control of the | · |
| Range of Estimated Fugitive/Other Emis | ssions: | | |
| of the | | to | tons/year |
| Reference: | , | | |
| Unit Code: | +* | • | |
| Emissions Method Code : * | | | |
| | | | |
| . Calculations of Emissions : | | | |
| | | | |
| | 4 . 4 . 4 | 5 | |
| . Pollutant Potential/Estimated Emissions | Comment: | Mary Min . | ; |
| Hydrogen Fluoride: potential emissions exc | ceed threshold amo | unt - no emission lim | its. |

III. Part 9b - 23

DEP Form No. 62-210.900(1) - Form

| 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 En | uissions: | | | | |
| | | | to | | tons/year |
| 6. Emissions Factor : | | | | | |
| Reference: | | | | | |
| Unit Code : | + | -# | | | |
| 7. Emissions Method Code: | | | | | |
| 8. Calculations of Emissions: | • | | | | _ |
| | | | | | |
| 9. Pollutant Potential/Estimated Emission | s Comment : | | | | |
| Potential emissions exceed threshold amo | ount - no emission l | imits. | | | |
| | | | | | |

III. Part 9b - 24

DEP Form No. 62-210.900(1) - Form

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

3

| Com | bustion Turbine No. 3 |
|------------|--|
| <u>PSD</u> | Increment Consumption Determination |
| 1. I | ncrement 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. |

III. Part 12 - 7

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| 2. | 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. | | | | | |
|] |] | • | • | • | • | vill begin) initial operation after March 28, 1988. as unit consumes increment. |
| [X | [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. | It | ncrement Cons | uming/Ex | spanding Code: | | |
| | | PM : | U | SO2 : | U | NO2: U |
| 4. | В | aseline Emissi | ons : | | | |
| | | PM : | | lb/hour | | tons/year |
| | | SO2: | | lb/hour | | tons/year |
| | NO2: tons/year | | | | | |

III. Part 12 - 8

DEP Form No. 62-210.900(1) - Form

5. PSD Comment:

III. Part 12 - 9

DEP Form No. 62-210.900(1) - Form

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

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): |

III. Part 13 - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| 12. | Identification of Additional Applicable Requirements: |
|-------------|---|
| 13. Plai | Compliance Assurance Monitoring n: |
| 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.) |
| | |

DEP Form No. 62-210.900(1) - Form

III. EMISSIONS UNIT INFORMATION

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

| Em | issio | ons Unit Information Section 4 |
|-------|------------|---|
| Stea | ım G | enerating Unit No. 6 |
| Typ | oe of | Emissions Unit Addressed in This Section |
| 1.] | Regi | lated 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. \$ | Singl | e 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. |

III. Part 1 - 4

DEP Form No. 62-210.900(1) - Form

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

Emissions Unit Description and Status

| Description of Emissions Unit Addressed in This Section: * Steam Generating Unit No. 6 | | | | |
|--|--------------------------------------|---|--|--|
| Description of Emissions Unit for A Steam Generating Unit No. 6 | _ | | | |
| Emissions Unit Identification No Corresponding I | | nknown | | |
| 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 : Unit in cold-standby. DEP Emissions Unit Comment : | | | | |
| Similar-Emissions Unit Identification + | n Numbers for Fee Purposes: | | | |

III. Part 2 - 4

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 6 | |
|------------------------------------|---|
| Emissions Unit Control Equipment 1 | |
| 1. Description: | |
| None | |
| | |
| 2. Control Device or Method Code: | * |

III. Part 3 - 4

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

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-19 | 989 |
| 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 m | nmBtu/hr |
| 2. Maximum Incinerator Rate : | 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 Maximum heat input rate is 187.3 MMBtu/hr. | er factor. |

III. Part 4 -

DEP Form No. 62-210.900(1) - Form

Emissions Unit Operating Schedule

Requested Maximum Operating Schedule:

24 hours/day

7 days/week

52 weeks/year

8,760 hours/year

III. Part 4 - 8

DEP Form No. 62-210.900(1) - Form

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Emissions Unit Information Section | 4 |
|---|---|
| Steam Generating Unit No. 6 | |

Rule Applicability Analysis

| N/A | |
|-----|--|
| | |
| | An experience of the second of |
| | And the first of the second of |
| | |
| | |
| | |
| l | |
| | en e |

III. Part 6a - 4

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Steam Generating Unit No. 6

List of Applicable Regulations

Reference Appendix A

III. Part 6b - 1

DEP Form No. 62-210.900(1) - Form

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 : | JRI | K-6 | | |
|-----|--|------|---------|---------------|-------------|
| 2. | Emission Point Type Code : | 1 | * | | |
| 3. | Descriptions of Emission Points Comprising this Emission | ons | Unit: | | |
| | N/A | | | | |
| 4. | ID Numbers or Descriptions of Emission Units with this I | Emis | ssion P | oint | in Common : |
| | N/A | | ; ' | | |
| 5. | Discharge Type Code : | | 7 | V | |
| 6. | Stack Height: | | 12 | 0 | feet |
| 7. | Exit Diameter : | 1 Y | | .0 | feet |
| | Exit Temperature : | | 3.5 | 50 | °F * |
| 9. | Actual Volumetric Flow Rate : | i | 5400 | 00 | acfm |
| 10 | Percent Water Vapor : | | | | % |
| 11 | . Maximum Dry Standard Flow Rate : | i de | | <i>i</i> , !, | dscfm |
| 12 | Nonstack Emission Point Height : | | 3 | | feet |
| 13. | Emission Point UTM Coordinates : | | | , | |
| | Zone: East (km): | | North | (km |): |
| Go | od Engineering Practice Stack Height : + | Ť ş | | | |
| | | | | | |

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 A | Associated Operating Method/Mode): |
| No. 6 Fuel Oil burned in Steam Generating Unit N 01 2. Source Classification Code (SCC): 1-02-0 | ELETTIC GENERATION |
| 2. Source Classification Code (SCC): 1-123-0 | 004-01 Not * |
| 3. SCC Units: Thousand Gallons Burned (all liqu | CONTRACTOR STREET, SERVICE |
| 3. SCC Units: Thousand Gallons Burned (all liqu | uid fuels) |
| a couple to a company to act of the contract o | |
| 4. Maximum Hourly Rate: 1.25 | 5. Maximum Annual Rate : |
| 6. Estimated Annual Activity Factor: | |
| | the state of the s |
| 7. Maximum Percent Sulfur: 1.50 | 8. Maximum Percent Ash: |
| Percent Sulfur Limit: + | 0.05 |
| 9. Million Btu per SCC Unit: 150 | |
| | A STATE OF THE PARTY OF THE PAR |
| 10. Segment Comment : | : |
| oil heat content of 150,000 Btu/gal. | ased on heat input of 187.3 MMBtu/hr and a nominal cation and BACT determination dated 10/9/91. Actual pre-BACT oil remaining in tank. |
| | , |

III. Part 8 - 7

DEP Form No. 62-210.900(1) - Form

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 Asso | ciated Operating Method/Mode): | | | | | |
| 1. Segment Description (Process/Fuel Type and Assorting Unit No. 6. Ol V | 42c Cryc Arolly or | | | | | |
| 2. Source Classification Code (SCC): 1-006-0 | * | | | | | |
| 3. SCC Units: Million Cubic Feet Burned (all gaseou | s fuels) | | | | | |
| 4. Maximum Hourly Rate: 0.18 5. | Maximum Annual Rate : | | | | | |
| 6. Estimated Annual Activity Factor: | | | | | | |
| 7. Maximum Percent Sulfur: 8. Percent Sulfur Limit: + | Maximum Percent Ash: | | | | | |
| 9. Million Btu per SCC Unit: 1,040 | , | | | | | |
| 10. Segment Comment : | | | | | | |
| Maximum hourly rate (Field 4 - 0 18 MMft3/hr) based natural gas heat content of 1,040 Btu/ft3. | on heat input of 187.3 MMBtu/hr and a nominal | | | | | |

III. Part 8 - 8

DEP Form No. 62-210.900(1) - Form

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

| Emissions Unit Information Section | 4 |
|---|---|
| Steam Generating Unit No. 6 | |

| 1. Pollutant Em | itted | 2. Primary Control Device Code | 3. Secondary Control Device Code | Pollutant Regulatory Code |
|-----------------|-------------------|--|--|-------------------------------|
| 1 - CO | * | . (° | | NS . |
| 2 - NOX | * | * | | NS |
| 3 - PM | * | 1 3/4/4 15 1 50 3 1866 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | The state of the state of the state of | EL |
| 4 - PM10 | ★ 17.48 | ्राहरू वर्षी का अनुकार का अनु अनुकार का का अनुकार | 100 | NS |
| 5 - ŞÖ2 | * | . * | | EL |
| 6 - VOC | * | l t Marin de | l , s, r | NS |
| 7 - H107 | | * | , | NS |
| 8 - H106 | * | * | | NS |

The state of the s

III. Part 9a - 4

DEP Form No. 62-210.900(1) - Form

| 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 E | Emissions: | | |
| | | to | tons/year |
| 6. Emissions Factor: | , | | |
| Reference: | | v | |
| Unit Code : | +* ′ | | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| | | | |
| 9. Pollutant Potential/Estimated Emission | ons Comment : | | |
| Potential emissions exceeds threshold a | mount - no emission limits. | | |

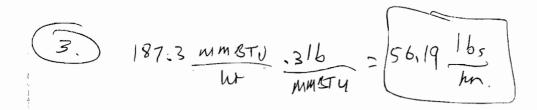
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| 4 | | |
|--------------------|-------------------------------|--|
| | | |
| Pollutant | 2 | |
| | | |
| | % | |
| | | |
| lb/hour | | tons/year |
| 11 7 | in the second | f. |
| nissions: | | |
| | to | tons/year |
| | | |
| + | •* | |
| | | |
| , | | |
| · | ja 4 | |
| s Comment : | the contract | |
| ount - no emission | limits. | |
| | Pollutant lb/hour nissions: | Pollutant 2 % Ib/hour hissions: to |

III. Part 9b - 26

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2000 th MARTY 187.3 MMBTY 21 Dr. 365day

| Steam Generating Unit No. 6 | |
|---|--|
| Pollutant Detail Information: Pollutant | 3 |
| 1. Pollutant Emitted: PM * | |
| 2. Total Percent Efficiency of Control: | % |
| 3. Potential Emissions 156:19 1b/hour | 117.12 tons/year |
| 4. Synthetically Limited? | St. Marty et |
| [] 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 (worself-burly potential emission rate based on 0.3 lb/MMBtu allow changes. Annual potential emission rate based on composite lb/MMBtu for 3 hrs/dy and 0.1203 lb/MMBtu for 21 hrs/dy | vable during soot blowing and load allowable limit of 0.1428 lb/MMBtu (0.3 |

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| Steam Generating Unit No. 6 | |
|---|----|
| Pollutant Information Section 3 ρN | |
| 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. | |
| | |

III. Part 9c - 1

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DEP Form No. 62-210.900(1) - Form

| 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 Emiss | |
| 3. Requested Allowable Emissions and Unit Allowable Emissions Unit | s: 0.30 * lb/MMBtu * |
| 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 of Applicable for up to 3 hrs in any 24-hour per | |

III. Part 9c - 2

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section Steam Generating Unit No. 6 | 4 | | |
|---|-------------------|------------------|-----------|
| Pollutant Detail Information: | Pollutant | 4 | |
| 1. Pollutant Emitted: PM10 | , | | |
| 2. Total Percent Efficiency of Contro | ol : | % | |
| 3. Potential Emissions: | lb/hour | | /year |
| 4. Synthetically Limited? No | orthograph of the | 1 Mary 1 Private | i |
| 5. Range of Estimated Fugitive/Other | r Emissions: | to | tons/year |
| 6. Emissions Factor: Reference: Unit Code: | | · ←★ | |
| 7. Emissions Method Code: | * | | ٠, |
| 8. Calculations of Emissions: | | | |
| 9. Pollutant Potential/Estimated Emis Potential emissions exceeds threshold | | | |

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Effective: 3-21-96

Į į

Potential Emmions

1.25 1000 gal 8.0531

hr gal = 301.98 B 2 (1015)

Sccumb

.

= 1322.7 Tons

| 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 | | 1,322.26 | |
| 4. Synthetically Limited? | 1 1 1 | Stylingt State | 1 |
| [X] Yes [] No | | i line la company | · · |
| 5 Range of Estimated Fugitive/Other Emis | ssions: | | |
| , | | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | | | |
| Unit Code: | | +* | |
| 7. Emissions Method Code: 0 * | | | |
| 8. Calculations of Emissions: | | | |
| N/A | | | · |
| | | 1 1 | , |
| 9. Pollutant Potential/Estimated Emissions | Comment: | $t_{i+1} = e^{-\frac{i}{2}} f^{(i)}$ | |
| Potential emissions set equal to allowable e Potential emissions based on combustion o | | (worst case fuel). | |

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DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 4 | | | |
|--|----------------------|-------------------|------------|----|
| Steam Generating Unit No. 6 | | | | |
| Pollutant Information Section 5 | _ 50z. | | | |
| Allowable Emissions 1 | | | | |
| 1. Basis for Allowable Emissions Code: | RUL | E * | | |
| | | | | |
| 2. Future Effective Date of Allowable En | nissions : | | | |
| | | | | |
| 3. Requested Allowable Emissions and U Allowable Emissions Unit: | Jnits: 1.50 | * wt % S | , | * |
| 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 T | Test Frequency: | | +* |
| Fequency Base Date : + | | | | |
| Regulation : | | | +* | |
| 6. Pollutant Allowable Emissions Comme | ent (Desc. of Relate | d Operating Metho | od/Mode) : | |
| Rule 62-296.406(3), F.A.C. (BACT) | | | | |
| I . | | | | |

III. Part 9c - 3

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| etion 4 | | |
|---------------------------------------|--|--|
| | | |
| Pollutant | 6 | |
| * . | | |
| ontrol : | % | |
| | | |
| lb/hour | | ons/year |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | the transfer of the | ! |
| Other Emissions: | to | tons/year |
| 1 | +* | |
| * | | |
| | | |
| tares <u>parte in</u> | 17 44 | |
| | | |
| eshold amount - no emission | limits. | |
| | Pollutant tontrol: Ib/hour Other Emissions: | Pollutant 6 * Ib/hour to Other Emissions: |

III. Part 9b - 30

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section Steam Generating Unit No. 6 | 4 | | | |
|--|--------------------|-----------------|--------------|-----------|
| Pollutant Detail Information: | Pollutant | | | |
| 1. Pollutant Emitted: H107 * | | | | |
| 2. Total Percent Efficiency of Control: | | % | | |
| 3. Potential Emissions: | lb/hour | | tons/year | |
| 4. Synthetically Limited? [] Yes [] No | ŧ | t e e | (| |
| 5. Range of Estimated Fugitive/Other Emi | ssions: | to | | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | + | * | | |
| 7. Emissions Method Code : * | | - | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emissions | | i | • | |
| Hydrogen Fluoride: potential emissions ex- | ceeds threshold an | nount - no emis | sion limits. | |

III. Part 9b - 31

DEP Form No. 62-210.900(1) - Form

| | nissions Unit Information Section cam Generating Unit No. 6 | · - 4 | | |
|-----------|--|--------------------------|---|-----------|
| | • | | | - |
| <u>Po</u> | llutant Detail Information: | Pollutant | 8 | |
| 1. | Pollutant Emitted: H106 | • | | |
| 2. | Total Percent Efficiency of Contro | ol : | % | |
| 3. | Potential Emissions: | | | |
| | • | lb/hour | tons/y | vear . |
| 4. | Synthetically Limited? | to the particle of his | 1. 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| 5. | Range of Estimated Fugitive/Other | r Emissions: | | |
| | | • | to | tons/year |
| 6. | Emissions Factor : Reference : | , | | |
| | Unit Code: | +1 | | |
| 7. | Emissions Method Code: | * | | |
| 8. | Calculations of Emissions: | | | |
| | r of spanishing | le Me in Niewski, s | | |
| 9. | Pollutant Potential/Estimated Emis | ssions Comment: | | i |
| | Hydrogen Chloride: potential emission | ons exceeds threshold am | nount - no emission limits | |

III. Part 9b - 32

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section 4 Steam Generating Unit No. 6 |
|--|
| |
| <u>Visible Emissions Limitation</u> : 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 |
| 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: +* |

III. Part 10 - 1

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 6 | | | |
|---|---------------------------|--------------------------------------|--------|
| Visible Emissions Limitation: Vis | sible Emissi | ons Limitation 2 | |
| 1. Visible Emissions Subtype: | S | * | |
| 2. Basis for Allowable Opacity: | RULE | * | |
| Norr | nal Conditional Condition | ons : 60 % | |
| 4. Method of Compliance : | | | |
| Option to use either FDEP or EPA R | eference Me | thod 9 | |
| 5. Visible Emissions Comment: | | | |
| Rule 62-210.700(3), F.A.C. and Per Applicable for up to 3 hours in any 2 | | <u> </u> | anges. |
| Compliance Test Frequency: | 0 + | Frequency Base Date: | + |
| COM Required: + | le i i | and the first property of the second | |
| Regulation: +* | | 1.4 | |

III. Part 10 - 2

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| Steam Generating Unit No. 6 |
|---|
| <u>Visible Emissions Limitation</u> : 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: +* |

III. Part 10 - 3

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| team Generating Unit No. 6 |
|---|
| isible Emissions Limitation: Visible Emissions Limitation 4 |
| Visible Emissions Subtype : * |
| Basis for Allowable Opacity: * |
| Requested Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour |
| Method of Compliance: |
| 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. |
| ompliance Test Frequency: 0 + Frequency Base Date: + |
| OM Required: + |
| egulation: +* |

III. Part 10 - 4

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| Steam Generating Unit No. 6 |
|--|
| <u>Visible Emissions Limitation</u> : Visible Emissions Limitation 5 |
| 1. Visible Emissions Subtype: |
| 2. Basis for 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: +* |

III. Part 10 - 14

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

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

| Emi | ssions Unit Information Section 4 | | | | |
|------------|--|--|--|--|--|
| Stea | Steam Generating Unit No. 6 | | | | |
| <u>PSE</u> | Increment Consumption Determination | | | | |
| 1. I | ncrement 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. | | | | |

III. Part 12 - 10

DEP Form No. 62-210.900(1) - Form

| 2. | In | crement 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 emissions unit began initial operation after February baseline emissions are zero, and emissions unit consu | 8, 1988, but before March 28, 1988. If so | |
|] |] | For any facility, the emissions unit began (or will began for so, baseline emissions are zero, and emissions unit | consumes increment. | |
| [} | [] | None of the above apply. If so, baseline emissions of case, additional analysis, beyond the scope of this apply. | | |
| | | changes in emissions have occurred (or will occur) at | | |
| | | expand increment. | | |
| | | | | |
| | | e parties and the second of th | $q = e(A_{ij}) + e(A_{ij})$ | |
| | | the state of the s | , | |
| 3. | Ir | crement Consuming/Expanding Code: | | |
| | | | Element . | |
| | | $\mathbf{PM}: \mathbf{U} \qquad \mathbf{SO2}: \mathbf{U}$ | NO2: U | |
| 4. | В | aseline Emissions : | · | |
| | | 10 (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 4. · · · · · · · · · · · · · · · · · · · | |
| | | PM: lb/hour | tons/year | |
| | | SO2: lb/hour | tons/year | |
| | | NO2: | tons/year | |
| | | 4 C 4 | . 1 | |
| | | | | |

III. Part 12 - 11

III DEP Form No. 62-210.900(1) - Form

Effective: 3-21-96

. 1

5. PSD Comment:

III. Part 12 - 12

DEP Form No. 62-210.900(1) - Form

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 6 | |
|---|----------------|
| Supplemental Requirements for All Applications | |
| 1. Process Flow Diagram: | П.Е.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: | NÁ |
| 8. Supplemental Information for Construction Permit Applicati | |
| 9. Other Information Required by Rule or Statue: | - 18 1 |
| Additional Supplemental Requirements for Category I Appl | lications Only |
| 10. Alternative Methods of Operations: | III.L.10 |
| 11. Alterntive Modes of Operation (Emissions Trading): | NA |
| III. Part 13 - 7 | 1 |

| 12. Identification | of Additional Applicable Requirement | s: Appendix A |
|--------------------|--------------------------------------|--------------------------------------|
| 13. Compliance A | Assurance Monitoring | III.L.13 |
| 14. Acid Rain Ap | oplication (Hard-copy Required): | |
| NA | Acid Rain Part - Phase | e II (Form No. 62-210.900(1)(a)) |
| NA | Repowering Extension | n 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 | on (Form No. 62-210.900(1)(a)3.) |

III. EMISSIONS UNIT INFORMATION

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

| Emi | ssio | ons Unit Information Section 5 |
|------------|------------|---|
| Stear | n G | enerating Unit No. 7 + |
| Type | e of | Emissions Unit Addressed in This Section |
| 1. R | egu | ulated or Unregulated Emissions Unit? Check one: |
| 1, | x] | sions Unit Addressed in This Section or Unregulated Emissions Unit? Check one: emissions unit addressed in this Emissions Unit Information Section is a regulated ions unit. emissions unit addressed in this Emissions Unit Information Section is an unregulated ions unit. emissions unit addressed in this Emissions Unit Information Section is an unregulated ions unit. ess, Group of Processes, or Fugitive Only? Check one: Emissions Unit Information Section addresses, as a single emissions unit, a single ess or production unit, or activity, which produces one or more air pollutants and which teast one definable emission point (stack or vent). Emissions Unit Information Section addresses, as a single emissions unit, a group of ess or production units and activities which has at least one definable emission point or or vent) but may also produce fugitive emissions. Emissions Unit Information Section addresses, as a single emissions unit, one or more |
| [|] | The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit. |
| | | |
| 2. S | ingl | e 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. |
| | | |

III. Part 1 - 5

DEP Form No. 62-210.900(1) - Form

| 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 Steam Generating Unit No. 7 | Addressed in This Section: * | | | | | |
|--|--|--|--|--|--|--|
| Description of Emissions Unit for A Steam Generating Unit No. 7 | IRS Tracking: + | | | | | |
| 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 + | 1 Numbers for Fee Purposes : | | | | | |

III. Part 2 - 5

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Control Equipment 1 | _ | |
|------------------------------------|---|--|
| 1. Description : | | |
| None | | |
| | | |
| 2. Control Device or Method Code : | * | |

III. Part 3 - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Steam Generating Unit No. 7

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 : | | 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 : 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 : | | |
| III. Par | t 4 - 9 | |

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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)

| 'A | | | |
|-----------|--|---|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | , | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

III. Part 6a - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Emissions Unit Information Section

Steam Generating Unit No. 7

List of Applicable Regulations

Reference Appendix A

5

C. EMISSION POINT (STACK/VENT) INFORMATION

| Diagram: JRK-7 |
|---|
| 2 * |
| this Emissions Unit : |
| |
| its with this Emission Point in Common: |
| · |
| v |
| 200 feet |
| 10.5 feet |
| 337 °F * |
| 207750 acfm an enage |
| % |
| ····································· |
| feet |
| |
| North (km): |
| |

III. Part 7a - 9

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Steam Generating Unit No. 7

14. Emission Point Comment:

Fields 8 and 9 taken from January 1974 permit application.

F. SEGMENT (PROCESS/FUEL) INFORMATION

| Emissions Unit Information Section 5 | <u>.</u> |
|---|------------------------------------|
| 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 N | [o. 7. |
| 2. Source Classification Code (SCC): 1-01-0 | 004-01 * |
| 3. SCC Units: Thousand Gallons Burned (all liqu | uid 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 : | |
| heat content of 150,000 Btu/gal. | |
| III. Part 8 - 9 | , |

DEP Form No. 62-210.900(1) - Form

F. SEGMENT (PROCESS/FUEL) INFORMATION

| Emissions Unit Information Section 5 | <u> </u> |
|---|--|
| 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): 1-01-0 | |
| 3. SCC Units: Million Cubic Feet Burned (all ga | seous fuels) |
| 4. Maximum Hourly Rate: 0.26 | 5. Maximum Annual Rate: |
| 6. Estimated Annual Activity Factor: | |
| | * f = - * |
| 7. Maximum Percent Sulfur : Percent Sulfur Limit : + | 8. Maximum Percent Ash: |
| 9. Million Btu per SCC Unit: 1,040 | |
| | The state of the s |
| 10. Segment Comment : | |
| Maximum hourly rate (Field 4 - 0.262 MMft3/hr) natural gas heat content of 1,040 Btu/ft3. | based on heat input of 272 MMBtu/hr and a nominal |

III. Part 8 - 11

DEP Form No. 62-210.900(1) - Form

G. EMISSIONS UNIT POLLUTANTS

(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section

Steam Generating Unit No. 7

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

III. Part 9a - 5

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 5 | | | | |
|---|--------------------|-----------|----|-----------|-----------|
| Steam Generating Unit No. 7 | | 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 En | nissions: | | | (| |
| | | | to | | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | | +* | | | |
| 7. Emissions Method Code : * | · | | | | |
| 8. Calculations of Emissions: | | | | | |
| 9. Pollutant Potential/Estimated Emission | s Comment : | | - | | _ |
| Potential emissions exceed threshold amo | ount - no emission | ı limits. | | | |

III. Part 9b - 33

DEP Form No. 62-210.900(1) - Form

| 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/yea | r |
| 4. Synthetically Limited? [] Yes [] No | | | | |
| 5. Range of Estimated Fugitive/Other E | Emissions: | 1 | to | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | | +* | | |
| 7. Emissions Method Code: | * | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emission | | · · | | |
| Potential emissions exceed threshold ar | mount - no emission | limits. | | |

III. Part 9b - 34

DEP Form No. 62-210.900(1) - Form

Pot emusion

-315 1095 hr 249 mm BTy T + . 1186 Lb 21 hr (365 days) 249 mm sty = 154.07

| | ssions Unit Information Secon Generating Unit No. 7 | ction | | | | |
|------|---|------------------------------------|--|---------------------------------------|------------|-----------|
| | utant Detail Information : | | Pollutant | 3 | | , |
| 1. I | Pollutant Emitted: PM | * | | | | |
| | Total Percent Efficiency of Co | ontrol : | | % | | • |
| | | | lb/hour | 7 | tons/year | f |
| 4. S | Synthetically Limited? No Yes No | | i tyr frifi yr troping till. Kyfrifa - Syriasa | · · · · · · · · · · · · · · · · · · · | tant prove | |
| | Range of Estimated Fugitive/C | Other Emi | issions: | to | | tons/year |
| 6. E | Emissions Factor: Reference: Unit Code: | т | | + * | | |
| 7. E | Emissions Method Code: | 0 * | | | | |
| 8. C | Calculations of Emissions: | . *] a 2 - 4/4 | | | C L | |
| 9. P | Pollutant Potential/Estimated | Emissions | Comment: | 11/11/11/11 | 1 | |
| | Potential emissions set equal to Potential emissions based on con Hourly potential emission rate be changes. Annual potential emis lb/MMBtu for 3 hrs/dy and 0.11 | mbustion leased on 0. sion rate b | No. 6 fuel oil (w 3 lb/MMBtu all based on compos | owable during so ite allowable lim | _ | |

III. Part 9b - 35

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section Steam Generating Unit No. 7 | 5 | | |
|---|-----------------------------|----|-----------|
| 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? No | | | |
| 5. Range of Estimated Fugitive/Other E | missions: | to | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | +* | | |
| 7. Emissions Method Code : | * | | |
| 8. Calculations of Emissions: | ·. | | , |
| 9. Pollutant Potential/Estimated Emission | ons Comment : | | |
| Potential emissions exceed threshold an | nount - no emission limits. | | |

III. Part 9b - 36

DEP Form No. 62-210.900(1) - Form

Pot. emissions

1.66 \$\frac{1000 \text{ gal}}{\text{hr}} \quad \frac{8.052 1b}{\text{gal}} \quad 2(.015) = 401.03. \frac{\text{br}}{\text{hr}} = 1756151 TPY

| 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 E | Emissions: | | |
| | | to | tons/year |
| 6. Emissions Factor: | | | |
| Reference: | | | |
| Unit Code : | + | •# | |
| 7. Emissions Method Code: 0 | * | | |
| 8. Calculations of Emissions : | | | |
| | | | |
| · | | | |
| 9. Pollutant Potential/Estimated Emission | ons Comment: | | |
| Potential emissions set equal to allowab Potential emissions based on combustic | | vorst case fuel). | |

III. Part 9b - 37

DEP Form No. 62-210.900(1) - Form

| 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 | | to | ons/year |
| 4. Synthetically Limited? | | 1 | | |
| [] Yes [] No | | | | |
| 5. Range of Estimated Fugitive/Other Em | issions: | | | |
| | | | to | tons/year |
| 6. Emissions Factor: | | | | |
| Reference: | | | | |
| Unit Code: Lb/ | + | * , | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emission | s Comment : | | | |
| Potential emissions exceed threshold amo | unt - no emission li | mits. | | |

III. Part 9b - 38

DEP Form No. 62-210.900(1) - Form

| | nissions Unit Information Sec | | | |
|-----|----------------------------------|---|--|----------------|
| Ste | am Generating Unit No. 7 | | | |
| Po | llutant Detail Information: | Pollutant | 7 | |
| | | | <u>·</u> | |
| 1. | Pollutant Emitted: H107 | * | | |
| 2. | Total Percent Efficiency of Co | ontrol : % | , | |
| 3. | Potential Emissions: | | | |
| | | lb/hour | tons/ | year |
| 4. | Synthetically Limited? | 174 1 278 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | rig property of the | : |
| 5. | Range of Estimated Fugitive/C | Other Emissions: | | |
| | | " # | to | tons/year |
| 6. | Emissions Factor Reference: | P. Lupto | *1 | |
| | Unit Code : Lb/ | ++ | | |
| 7. | Emissions Method Code: | ★ . | | |
| 8. | Calculations of Emissions: | · | • | |
| | | i i i i i i i i i i i i i i i i i i i | s in the | 5 |
| _ | | Mil Der it sall vist | 11. I when the transfer of the | |
| 9. | Pollutant, Potential/Estimated 1 | Emissions Comment : 11 11 | |) ₁ |
| | Hydrogen Fluoride potential en | nissions exceed threshold amount | - no emission limits. | |

III. Part 9b - 39

The second of th

1 110

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section Steam Generating Unit No. 7 | 5 | | |
|--|---------------------|-------------------|-------------|
| 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 En | missions: | to | tons/year |
| 6. Emissions Factor : Reference : Unit Code : | | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | | |
| 9. Pollutant Potential/Estimated Emissio | ns Comment : | | |
| Hydrogen Chloride - potential emissions | exceed threshold ar | nount - no emissi | ion limits. |

III. Part 9b - 40

DEP Form No. 62-210.900(1) - Form

| 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 Emission | ns: | |
| 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 (D Rule 62-296 406(2), F.A.C. (BACT). Applicable during steady state operations and co | | |

III. Part 9c - 4

DEP Form No. 62-210.900(1) - Form

A Marine Commence of the second of the secon

| Pollutant Information Section 3 Allowable Emissions 2 | |
|---|----|
| 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. | |

5

III. Part 9c - 5

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| Emissions Unit Information Section Steam Generating Unit No. 7 | 5 | |
|--|---|----|
| Pollutant Information Section 5 | _ | |
| Allowable Emissions 1 | | |
| 1. Basis for Allowable Emissions Code: | RULE * | |
| 2. Future Effective Date of Allowable Emis | ssions : | |
| 3. Requested Allowable Emissions and Unit Allowable Emissions Unit: | its: 1.50 * wt % S | * |
| 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 Rule 62-296.406(3), F.A.C. (BACT). | t (Desc. of Related Operating Method/Mode): | |

III. Part 9c - 6

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 7 |
|--|
| <u>Visible Emissions Limitation</u> : Visible Emissions Limitation 1 |
| 1. Visible Emissions Subtype : * |
| 2. Basis for Allowable Opacity: RULE * |
| 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: +* |

III. Part 10 - 5

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 7 | |
|---|---|
| <u>Visible Emissions Limitation</u> : 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: +* | |

III. Part 10 - 6

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

5

| Steam Generating Unit No. 7 |
|--|
| <u>Visible Emissions Limitation</u> : Visible Emissions Limitation 3 |
| 1. Visible Emissions Subtype: S * |
| 2. Basis for 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: +* |

III. Part 10 - 7

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

| Emissions Unit Information Section 5 Steam Generating Unit No. 7 |
|--|
| <u>Visible Emissions Limitation</u> : 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: +* |

III. Part 10 - 8

DEP Form No. 62-210.900(1) - Form

Effective: 3-21-96

Commence of the Commence of

| Emissions Unit Information Sectors Steam Generating Unit No. 7 | tion <u>5</u> | | |
|--|--|-----------------------------------|-------------------|
| Visible Emissions Limitation: | Visible Emission | s Limitation 5 | |
| 1. Visible Emissions Subtype: | * | | |
| 2. Basis for Allowable Opacity: | RULE | * | |
| 3. Requested Allowable Opacity: | | | |
| No. | ormal Condition | s: 141, 1 % | |
| Except | ional Conditions | s: 100 % | |
| Maximum Period of Excess O | pacity Allowed | : 60 min/hour | |
| 4. Method of Compliance : | | | |
| i. Monda of Complaines . | | | |
| | | | |
| , | | | |
| 5. Visible Emissions Comment: Rule 62-210.700(1), F.A.C Excess emissions resulting from st 24-hour period. | tartup, shutdown | or malfunction are allowed for up | to 2 hours in any |
| Compliance Test Frequency: | 0 + | Frequency Base Date: | + . |
| COM Required: + | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | | |
| Regulation: +* | <u> </u> | | |

III. Part 10 - 15

DEP Form No. 62-210.900(1) - Form

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. |

III. Part 12 - 13

DEP Form No. 62-210.900(1) - Form

| 2. | In | crement Consu | ming 1 | for Nitr | ogen Dioxid | e? | | | | | | |
|-----|-----|--|--------|----------------------|--------------------------------|-------|-------|-------------------------|------------------------|----------------------|---|--------|
| Į |] | The emissions application, or unit consumes | has u | ndergo | | | | | | - | urt of this If so, emissions | S |
| [|] | The facility add paragraph (c) of the emissions u February 8, 199 | of the | definiti Idressec | on of "major I in this sect | sour | ce of | air pollut enced (or | tion" in C will con | Chapter 6 nmence) | 62-213, F.A.C., construction af | fter |
| Į |] | The facility ad emissions unit baseline emissi | begar | n initial | operation at | ter F | ebrua | ry 8, 198 | 8, but be | fore Mai | e, and the rch 28, 1988. I | if so, |
| [|] | For any facility If so, baseline | | | _ | • | | | _ | | er March 28, 19 | 988. |
| [X | [] | | l anal | ysis, be | yond the sco | pe of | this | applicati | on, is nee | eded to d | nonzero. In su letermine wheth at may consume | her |
| | | | | ; | | | | | | | | |
| _ | | | | , | | | | | | | | |
| 3. | Ir | ncrement Consu | ming/ | Expand | ling Code : | | | | | | | |
| | | PM : | U | | SO2 : | U | | | NO2 : | U | | |
| 4. | В | aseline Emission | ns : | | | | | | | r | | |
| | | PM : | | • | lb/hour | | | | | tons/yea | ır | |
| | | SO2: | | | lb/hour | | : | | | tons/yea | ır | |
| | | NO2: | | , | | | | | | tons/yea | ır | |
| | | | | | | | | | | | | |

III. Part 12 - 14

DEP Form No. 62-210.900(1) - Form

| 5. | PSD | Comment | : |
|----|-----|---------|---|
| | | | |

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section

| Steam Generating Unit No. 7 | | | | | |
|--|----------------------|--|--|--|--|
| Supplemental Requirements for All Applications | <u>I</u> | | | | |
| 1. Process Flow Diagram: | П.Е.3 | | | | |
| 2. Fuel Analysis or Specification : | III.L.2 | | | | |
| 3. Detailed Description of Control Equipment : | NA | | | | |
| 4. Description of Stack Sampling Facilities : | NA 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 Perm | nit Application : NA | | | | |
| 9. Other Information Required by Rule or Statue: | Section 1 (1884) | | | | |
| Additional Supplemental Requirements for Cate | , | | | | |
| 10. Alternative Methods of Operations: | III.L.10 | | | | |
| 11. Alterntive Modes of Operation (Emissions Trace | ling): NA | | | | |
| III Doet 12 | | | | | |

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

| 12. Identification of | Additional Applicable Requirements: | Appendix A |
|-------------------------------|-------------------------------------|-------------------------------|
| 13. Compliance Assu Plan : | rance Monitoring | III.L.13 |
| 14. Acid Rain Applic | cation (Hard-copy Required): | • |
| NA | Acid Rain Part - Phase II (Fo | orm 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 (For | rm No. 62-210.900(1)(a)3.) |
| NA | Retired Unit Exemption (For | rm No. 62- |

III. EMISSIONS UNIT INFORMATION

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

| Type (| of Emissions Unit Addressed in This Section |
|--------|--|
| 1. Reg | gulated 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. |
| o g: | als Bassas Craum of Brassass on Euclidea Only? Charle one |
| 2. Sin | gle Process, Group of Processes, or Fugitive Only? Check one: This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent). |
| | This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and whic |

III. Part 1 - 6

DEP Form No. 62-210.900(1) - Form

| Emissions | Unit | Information | Section |
|------------------|------|-------------|---------|
|------------------|------|-------------|---------|

B. GENERAL EMISSIONS UNIT INFORMATION

6

(Regulated and Unregulated Emissions Units)

Emissions Unit Description and Status

| • | of Emissions Uting Unit No. 8 | Init Addressed in T | his Section: * | • |
|---|-------------------------------------|----------------------|----------------|--|
| • | nissions Unit for rating Unit No | or AIRS Tracking: | + | |
| | nit Identificati Correspondi | on Number : 008 | . * []t | Jnknown |
| 3. Emissions U Status Code: | nit A | 4. Acid Rain Unit? | [] No * | 5. Emissions Unit Major Group SIC Code: 49 + |
| 6. Emissions Un N/A DEP Emissions U | | | | |
| Similar-Emission | s Unit Identifica | ation Numbers for Fe | ee Purposes : | |

III. Part 2 - 6

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 8 | • |
|------------------------------------|---|
| Emissions Unit Control Equipment 1 | |
| 1. Description: | |
| None | |
| | |
| 2. Control Device or Method Code : | * |

III. Part 3 - 6

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

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

| Emissions Unit Information Section | 5 | |
|--|----------|--------------------|
| 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 : | | 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: 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 : | | |
| · III. Part | 4 - 11 | |

DEP Form No. 62-210.900(1) - Form

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 |
| | | |

III. Part 4 - 12

DEP Form No. 62-210.900(1) - Form

D. EMISSIONS UNIT REGULATIONS (Regulated Emissions Units Only)

| Emissions Unit Information Section | 6 |
|---|---|
| Steam Generating Unit No. 8 | |

Rule Applicability Analysis

| N/A | |
|-----|--|
| | |
| | |
| | |
| , | |

III. Part 6a - 6

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

6

Steam Generating Unit No. 8

List of Applicable Regulations

Reference Appendix A

III. Part 6b - 3

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION

| 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 Emiss | sions Unit : | |
| N/A | | |
| 4. ID Numbers or Descriptions of Emission Units with this | Emission Point | tin Common : |
| Unit No. 7 and Unit No. 8 | i î | |
| 5. Discharge Type Code : | V | |
| 5. Stack Height: | 200 | feet |
| /. Exit Diameter : | 10.5 | feet |
| . Exit Temperature : | 290 | °F * |
| . Actual Volumetric Flow Rate : | 179179 | acfm |
| 0. Percent Water Vapor : | | % |
| 1. Maximum Dry Standard Flow Rate : | 1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | dscfm |
| 2. Nonstack Emission Point Height : | * 1.1 | feet |
| 3. Emission Point UTM Coordinates : | , | _ |
| Zone : East (km) : | North (kn | 1): |
| Good Engineering Practice Stack Height: + | 1.1.1 | |

III. Part 7a - 11

Emissions Unit Information Section

14. Emission Point Comment

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

F. SEGMENT (PROCESS/FUEL) INFORMATION

| 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 8. Maximum Percent Ash: |
| Percent Sulfur Limit : + |
| 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. |

III. Part 8 - 12

DEP Form No. 62-210.900(1) - Form

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 ga | · 美生产 · · · · · · · · · · · · · · · · · · · |
| 3. SCC Units: Million Cubic Feet Burned (all ga | aseous fuels) |
| apple of the state of the state | |
| 4. Maximum Hourly Rate: 0.56 | 5. Maximum Annual Rate: |
| 6. Estimated Annual Activity Factor: | |
| 3 | |
| 7. Maximum Percent Sulfur : Percent Sulfur Limit : + | 8. Maximum Percent Ash: |
| 9. Million Btu per SCC Unit: 1,040 | |
| Section 1985 Contraction | |
| 10. Segment Comment : | |
| Maximum hourly rate (Field 4 - 0.562 MMft3/hr nominal natural gas heat content of 1,040 Btu/ft3 | |

III. Part 8 - 13

DEP Form No. 62-210.900(1) - Form

G. EMISSIONS UNIT POLLUTANTS

(Regulated and Unregulated Emissions Units)

Emissions Unit Information Section
Steam Generating Unit No. 8

| 1. Pollutant Emitted | Primary Control Device Code | 3. Secondary Control Device Code | Pollutant Regulatory Code |
|----------------------|--|----------------------------------|-------------------------------|
| 1 - CO * | * | | NS |
| 2 - NOX * | * | | NS |
| 3 - PM * | 1.00 | | EL |
| • 4 - PM10 * | ************************************** | | NS M |
| 5 - SO2 * | * | | EL |
| 6 - VOC * | (| ļ. , ₁ 1 | NS |
| 7 - H106 * | • | | NS |
| 8 - H107 * | * | | NS |

III. Part 9a - 6

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 6 | | | |
|---|---------------------|----------|-----------|-----------|
| Steam Generating Unit No. 8 | | | | |
| Pollutant Detail Information: | Pollutant | | | |
| 1. Pollutant Emitted: CO * | | <u> </u> | , | |
| 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 Emis | ssions: | | | |
| | | 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 | nt - no emission li | mits. | | |

III. Part 9b - 41

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 6 | | | • |
|---|---------------------|--------|----|-----------|
| Steam Generating Unit No. 8 | | | | |
| Pollutant Detail Information: | Pollutant | | | |
| 1. Pollutant Emitted: NOX * | | | | |
| 2. Total Percent Efficiency of Control: | - | % | | |
| 3. Potential Emissions : | | | | · |
| | lb/hour | | to | ons/year |
| 4. Synthetically Limited? | | | | |
| [] Yes [X] No | | | | |
| 5. Range of Estimated Fugitive/Other Em | nissions: | | | |
| | | | to | tons/year |
| 6. Emissions Factor : | | | | **** |
| Reference: | | | | |
| Unit Code : | + | * | | |
| 7. Emissions Method Code : * | | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emission | s Comment : | | | |
| Potential emissions exceed threshold amo | unt - no emission l | imits. | | |

III. Part 9b - 42

DEP Form No. 62-210.900(1) - Form

Pot emission 2000 16 + . 116 (T) 21 hos 365 dy = 295.38

| Pollutant | 3 | |
|--|----------------------------------|--------------|
| - | | |
| | % | |
| hour | 295.38 | tons/year |
| | | |
| ons: | to | tons/year |
| - | + * | & |
| | | |
| | | |
| issions. 6 fuel oil (wo b/MMBtu allo | wable during soo | _ |
| | omment : issions. 6 fuel oil (wo | ons: to +* |

III. Part 9b - 43

DEP Form No. 62-210.900(1) - Form

| 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 | to | ons/year |
| 4. Synthetically Limited? | | | |
| [] Yes [X] No | | | |
| 5. Range of Estimated Fugitive/Other En | nissions: | | |
| | | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | | | |
| Unit Code: | +1 | • | |
| 7. Emissions Method Code: * | | | - |
| 8. Calculations of Emissions : | | | |
| | · | | - |
| 9. Pollutant Potential/Estimated Emission | ns Comment : | | · |
| Potential emissions exceed threshold amo | ount - no emission lir | nits. | |

III. Part 9b - 44

DEP Form No. 62-210.900(1) - Form

| 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? | | W | |
| [] Yes [X] No | | • | |
| 5. Range of Estimated Fugitive/Other En | missions: | | |
| | | to | tons/year |
| 6. Emissions Factor: | | | |
| Reference : | | | |
| Unit Code: | + | * | • |
| 7. Emissions Method Code: 0 | * | ٧ | , |
| 8. Calculations of Emissions : | | | |
| N/A | | | |
| 9. Pollutant Potential/Estimated Emissio | ns Comment : | | |
| Potential emissions set equal to allowable Potential emissions based on combustion | | vorst-case fuel). | |

III. Part 9b - 45

DEP Form No. 62-210.900(1) - Form

| 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 | | to | ons/year |
| 4. Synthetically Limited? | | | | |
| [] Yes [X] No | | | | |
| 5. Range of Estimated Fugitive/Other Em | issions: | | | |
| | | | to | tons/year |
| 6. Emissions Factor: | | | | |
| Reference: | | | | |
| Unit Code: | 4 | . * | | |
| 7. Emissions Method Code: | - | | | |
| 8. Calculations of Emissions: | | | | |
| 9. Pollutant Potential/Estimated Emission | s Commont : | | | |
| 7. I Onutant Fotential/Estimated Emission | s Comment. | | | |
| Potential emissions exceed threshold amo | unt - no emission l | imits. | | |

III. Part 9b - 46

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | 6 | | |
|--|----------------------|----------------|-----------|
| Steam Generating Unit No. 8 | | | · |
| Pollutant Detail Information: | Pollutant | | |
| 1. Pollutant Emitted: H106 * | | | |
| 2. Total Percent Efficiency of Control: | | % | |
| 3. Potential Emissions: | | | |
| | lb/hour | | tons/year |
| 4. Synthetically Limited? | 1 Y 1 | 1. 11 | |
| [] Yes [X] No | 1 | Company of the | ŧ |
| 5. Range of Estimated Fugitive/Other En | missions: | | |
| | 1 | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | | | |
| Unit Code: | . 4 | * | |
| 7. Emissions Method Code: | * . | | |
| 8. Calculations of Emissions: | | | |
| | | | |
| | 1 | V 1 | |
| 9. Pollutant Potential/Estimated Emissio | · | | , |
| Potential emissions exceed threshold am | ount - no emission l | imits. | |

III. Part 9b - 47

DEP Form No. 62-210.900(1) - Form

| Emissions Unit Information Section | on 6 | , | × × |
|---|-----------------------------|-------|-----------|
| Steam Generating Unit No. 8 | | ` | |
| Pollutant Detail Information: | Pollutant | 8 | |
| 1. Pollutant Emitted: H107 | * | | - |
| 2. Total Percent Efficiency of Cont | trol : | % | |
| 3. Potential Emissions: | | | |
| | lb/hour | to | ns/year |
| 4. Synthetically Limited? | - | T | |
| [] Yes [X] No | | | |
| 5. Range of Estimated Fugitive/Oth | her Emissions: | | |
| | | to | tons/year |
| 6. Emissions Factor : | | | |
| Reference: | \ | | |
| Unit Code: | + | * | |
| 7. Emissions Method Code: | * | | |
| 8. Calculations of Emissions: | | • | |
| | | , | |
| | | | |
| 9. Pollutant Potential/Estimated En | nissions Comment: | | |
| Potential emissions exceed thresho | old amount - no emission li | mits. | |

III. Part 9b - 48

DEP Form No. 62-210.900(1) - Form

| Steam Generating Unit No. 8 | | | | |
|--|--|------------------------------|------------------|--------|
| Pollutant Information Section 3 | | | | |
| Allowable Emissions 1 | | | | |
| 1. Basis for Allowable Emissions Code: | RULE | * | | |
| 2. Future Effective Date of Allowable Emission | ns : | | | |
| 3. Requested Allowable Emissions and Units : Allowable Emissions Unit : | 0.10 | * lb/M | MBtu | * |
| 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: + * | Committee | Enament / | | |
| Fequency Base Date : + | Compliance Test | Frequency: | | +* |
| Regulation: | | | . * * | |
| 6. Pollutant Allowable Emissions Comment (D Rule 62-296.405(1)(b), F.A.C. Applicable during steady state operation and cor Testing not required if liquid and/or solid fuel, o than 400 hours per federal fiscal year per Rule 6 | nbustion of No. 6 ther than during st | fuel oil. artup, is burne | · | ; more |

III. Part 9c - 7

The Mark March 199

DEP Form No. 62-210.900(1) - Form

| Pollutant Information Section | 3 | | | | | |
|---|--------------------------------|---------------|-------------|-----------|------------|------|
| Allowable Emissions 2 | Pm | | | | | |
| Basis for Allowable Emissions Co | ode : | RUL | Æ | * | | |
| 2. Future Effective Date of Allowab | le Emissions | 3 : | | | | |
| 3. Requested Allowable Emissions a Allowable Emissions Unit | nd Units : | 0.30 | 5 * | lb/MM | 1Btu | * |
| 4. Equivalent Allowable Emissions : | | _ | | | | |
| . 161 | .90 1 | lb/hour | 88. | .64 | tons/year | |
| 5. Method of Compliance : EPA Reference Method 5, 5B, 5F, o | or 17. | | | | | |
| Compliance Method Code: +* | (| Compliance 7 | Test Freque | ency: | | +* |
| Fequency Base Date : | + | | | | | |
| Regulation : | | | | | +* | |
| 6. Pollutant Allowable Emissions Co | omment (De | sc. of Relate | ed Operati | ng Metho | od/Mode) : | |
| Rule 62-210.700(3), F.A.C. Applicable during combustion of No. Applicable for up to 3 hours in any 2 Testing not required if liquid and/or s than 400 hours per federal fiscal year | 24-hour period solid fuel, oth | er than durin | g startup, | is burned | _ | more |

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III. Part 9c - 8

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

Steam Generating Unit No. 8

| St | eam Generating Unit No. 8 |
|----|--|
| Po | ollutant Information Section 5 |
| A | lowable 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. |
| C | ompliance Method Code: +* Compliance Test Frequency: +* |
| Fe | equency Base Date : + |
| R | egulation : +* |
| 6. | Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode): |
| | Chapter 62-296.405(1)(c)1.j., F.A.C. |
| | |

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III. Part 9c - 9

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

L. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

| Steam Generating Unit No. 8 |
|---|
| <u>Visible Emissions Limitation</u> : 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: +* |
| |

III. Part 10 - 9

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

| Emissions Unit Information Section Steam Generating Unit No. 8 | |
|--|--|
| <u>Visible Emissions Limitation</u> : 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: +* | |

III. Part 10 - 10

DEP Form No. 62-210.900(1) - Form

I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

6

| Steam Generating Unit No. 8 |
|---|
| <u>Visible Emissions Limitation</u> : Visible Emissions Limitation 3 |
| 1. Visible Emissions Subtype: S * |
| 2. Basis for Allowable Opacity: RULE * |
| 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: +* |

III. Part 10 - 11

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

| Steam Generating Unit No. 8 | |
|--|--|
| <u>Visible Emissions Limitation</u> : 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: +* | |

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DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section

I. VISIBLE EMISSIONS INFORMATION (Regulated Emissions Units Only)

| Steam Generating Unit No. 8 | | | |
|--|-----------------------------|--|--------------------|
| <u>Visible Emissions Limitation :</u> | Visible Emission | ons Limitation 5 | |
| 1. Visible Emissions Subtype : | | * | |
| | | | |
| 2. Basis for Allowable Opacity: | RULE | * | |
| 3. Requested Allowable Opacity | <u> </u> | | |
| | Normal Conditio | | |
| | otional Condition | | |
| Maximum Period of Excess | | | |
| 4. Method of Compliance: | | | |
| | 100 | 1. | • |
| į. | | | |
| 5. Visible Emissions Comment: | | | |
| Rule 62-210.700(1), F.A.C. Excess emissions resulting from 24-hr period. | startup, shutdowi | n, or malfunction are allowed for | up to 2 hrs in any |
| Compliance Test Frequency: | 0 + | Frequency Base Date: | + |
| COM Required: + | in the second of the second | in the state of th | |
| Regulation: +* | -11. | · · · · · · · · · · · · · · · · · · · | |

III. Part 10 - 13

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 6

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| 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 | Emissions Unit Information Section6 | |
|---|---|---|
| 1. Parameter Code: VE * 2. Pollutant(s): 3. CMS Requirement OTHER CMS Requirement Code: + 4. Monitor Information | Steam Generating Unit No. 8 | |
| 3. CMS Requirement OTHER CMS Requirement Code: + 4. Monitor Information | Continuous Monitoring System Continuo | ous Monitor 1 |
| 4. Monitor Information Manufacturer: Spectrum Model Number: SS4542 Serial Number 940119 5. Installation Date: 18-Mar-1994 | 1. Parameter Code: VE * | 2. Pollutant(s): |
| Manufacturer: Spectrum Model Number: SS4542 Serial Number 940119 5. Installation Date: 18-Mar-1994 | 3. CMS Requirement OTHER CM | MS Requirement Code : + |
| | Manufacturer: Spectrum Model Number: SS4542 | |
| 6. Performance Specification Test Date: 16-Jun-1995 | 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. Performance Specification Test Status: + Certification Date (DD-MON-YYYY): + | Unit No. 8 is a "gas-fired" unit and therefore ender the CFR Part 75. COMS installed as a contingent future. For currently formation of the Company of the | cy in the event Unit No. 8 becomes an "oil-fired" unit in the |

III. Part 11 - 1

DEP Form No. 62-210.900(1) - Form

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| Emissions Unit Information Section | |
|---|---------------------------|
| Steam Generating Unit No. 8 | , |
| Continuous Monitoring System Continuous Mo | onitor 2 |
| 1. Parameter Code: CO2 * | 2. Pollutant(s): |
| 3. CMS Requirement RULE CMS Rec | quirement Code : + |
| 4. Monitor Information Manufacturer: Thermo-Environmenta Model Number: 41H Serial Number 41H-45378-273 | al Instruments, Inc. |
| 5. Installation Date: 18-Man | r-1994 , Lagers 1 p de pr |
| 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): | + |

III. Part 11 - 2

DEP Form No. 62-210.900(1) - Form

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) : + |

III. Part 11 - 3

DEP Form No. 62-210.900(1) - Form

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| Emissions Unit Information Section6_ | | |
|--|--|--|
| 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): + | | |

III. Part 11 - 4

DEP Form No. 62-210.900(1) - Form

J. CONTINUOUS MONITOR INFORMATION (Regulated Emissions Units Only)

| | Emissions Unit Information Section6_ | | | | | |
|--|---|------------------|---|--|--|--|
| Steam Generating Unit No. 8 Continuous Monitoring System Continuous Monitor 5 | | | | | | |
| 1. Parameter Cod | e: FLOW * | 2. Pollutant(s): | | | | |
| 3. CMS Requirem | ent RULE CMS Re | quirement Code : | + | | | |
| Model 1 | acturer: United Sciences, Inc. Number: Ultraflow 100 Number 9303492 | | | | | |
| 5. Installation Dat | e: 18-Ma | ar-1994 | | | | |
| 6. Performance Sp | ecification Test Date: 10-Jul | ! | | | | |
| 7. Continuous Mo 40 CFR Part 75 | | 1 | | | | |
| | pecification Test Status : te (DD-MON-YYYY) : | + + | | | | |

And the second of the second o

III. Part 11 - 5

DEP Form No. 62-210.900(1) - Form

1 1

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

| Emi | ssions Unit Information Section | <u> </u> | | |
|------------|--|------------------------|--|---|
| Stea | m Generating Unit No. 8 | • | | |
| <u>PSD</u> | Increment Consumption Determ | ination | | |
| 1. I | ncrement Consuming for Particulate | e Matter or Sulfur Di | ioxide? | |
| [] | , , <u> </u> | • | of this application, or has undergone PS ide. If so, emissions unit consumes | D |
| [] | paragraph (c) of the definition of " the emissions unit addressed in thi | 'major source of air p | s an EPA major source pursuant to collution" in Chapter 62-213, F.A.C., and (or will commence) construction after the emissions unit consumes increment. | |
| [] | The facility addressed in this appliemissions unit began initial operation, baseline emissions are zero, and | ion after January 6, 1 | 975, but before December 27, 1977. If | f |
| . 1 | For any facility, the emissions unit 1977. If so, baseline emissions are | • • |) initial operation after December 27, unit consumes increment. | |
| [x] | such case, additional analysis, beyowhether changes in emissions have | ond the scope of this | of the emissions unit are nonzero. In application, is needed to determine ecur) after the baseline date that may | |
| | consume or expand increment. | | | |
| | | | | |
| | | | y to | |

III. Part 12 - 16

DEP Form No. 62-210.900(1) - Form

| 2. | In | crement Consu | ming for Nit | rogen Dioxid | le? | · | | |
|-----|---|-----------------|---------------------------------|----------------|----------|---|---|-----|
| [| 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. | | | | | | | er |
| [|] | emissions unit | began initia | l operation at | fter Feb | sified as an EPA maj ruary 8, 1988, but be consumes increment | fore March 28, 1988. If | so, |
| [|] | - | | _ | , | ill begin) initial opera | ation after March 28, 198 ement. | 18. |
| [X | [] | case, additiona | al analysis, be issions have | eyond the sco | pe of th | nis application, is nee | unit are nonzero. In such eded to determine whether date that may consume | er |
| | | | i | | | | | |
| 3. | Ir | ncrement Consu | ming/Expan | ding Code : | | | | |
| | | PM : | U | SO2: | U | NO2: | U | |
| 4. | В | aseline Emissio | ns: | | , | | | |
| | | PM : | ; | lb/hour | | | tons/year | |
| | | SO2 : | | lb/hour | | | tons/year | |
| | | NO2 : | | | | | tons/year | |

III. Part 12 - 17

DEP Form No. 62-210.900(1) - Form

5. PSD Comment:

III. Part 12 - 18

DEP Form No. 62-210.900(1) - Form

L. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section

| 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 Applicatio | ns Only |
| 10. Alternative Methods of Operations: | III.L.10 |
| 11. Alterntive Modes of Operation (Emissions Trading): | NA . |
| III. Part 13 - 11 | |

Effective: 3-21-96

DEP Form No. 62-210.900(1) - Form

| 12. Identification of Add | Appendix A | | | |
|--------------------------------|---|--|--|--|
| 13. Compliance Assurance Plan: | III.L.13 | | | |
| 14. Acid Rain Application | n (Hard-copy Required) : | | | |
| Appendix B | Acid Rain Part - Phase II (Form | n No. 62-210.900(1)(a)) | | |
| NA | Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) | | | |
| NA | New Unit Exemption (Form No | New Unit Exemption (Form No. 62-210.900(1)(a)2.) | | |
| NA Retired Unit Exemption (For | | | | |

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. | | Х | · | 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. | | Х | | 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. | | х | | 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 | | х | | 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)

| | | T | T | |
|--|---|-------------------|---------------|---|
| 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 with- out 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 Stando | ards 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 S Air Pollutants for Source Categories: F, G, H, I, L, M, N, O, Q, R, T, W, X JJ | Subparts A, B, C, D, E, | х | | 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 Genera | l 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 P | lan and Compliance Option | ıs | | | |
| General | §72.40(a)(1) | | Unit No. 8 | General SO ₂ compliance plan requirements. | |
| Subpart E - Acid Rain Permit Conten | ts | - | | | |
| 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 Emis | sion 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. | |

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) | Х | | 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 Maintena | nce 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 | n Procedures | | | |
| General Provisions | §75.30 | | Unit No. 8 | General missing data requirements. |
| Subpart D - Missing Data Substitution | n Procedures | | | |

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

| | | Not | | Applicable Requirement or |
|---|-------------------|------------|------------|---|
| Regulation | Citation | Applicable | Applicable | 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 Sy. | stems | | | <u>.</u> |
| Alternative Monitoring Systems | §75.40 - 75.48 | x | | Optional requirements for alternative monitoring systems. |
| Subpart F - Recordkeeping Requireme | ents | | | |
| 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 Requirem | enis | 1 | 1 | |
| 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 Strat | ospheric Ozone | | | | | | | | |
| Production and Consumption Controls | Subpart A | Х | | 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 | х | | J.R. Kelly Generating Station does not sell or distribute any banned nonessential substances. | | | | | |
| The Labeling of Products Using Ozone-Depleting Substances | Subpart E | х | | 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 I | Reduction | | | |
| Prohibitions | §82.154 | х | | 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) | х | | 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 | х | | 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 a Air Quality Standards | 10 CFR Part 50 - National Primary and Secondary Ambient Air Quality Standards | | | State agency requirements - not applicable to individual emission sources. |
| 40 CFR Part 51 - Requirements for Preparation, Adoption, and Submittal of Implementation Plans | | Х | | 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 | | Х | | 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 | | Х | | The listed regulations do not contain any requirements which a 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: P | art 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 | | х | | 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 | х | | | Establishes standard procedures for FDEP. Requirement is not applicable to the facility. |
| Modification of Permit Conditions | 62-4.080, F.A.C | х | | | 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. | х | | | 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. | | х | | 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. | Х | | · · · · · · · · · · · · · · · · · · · | General requirements for construction permits. |
| Operation Permits for New Sources | 62-4.220, F.A.C. | Х | | | General requirements for initial new source operation permits. |
| Chapter 62-204, F.A.C State Imp | lementation Plan | | | | |
| State Implementation Plan | 62-204.100, .200, .220(1)-(3), .240, .260, .320, .340, .360, .400, and .500, F.A.C. | х | | | Contains no applicable requirements. |
| Ambient Air Quality Protection | 62-204.220(4), F.A.C. | х | | · | 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 | | х | | 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 . | | Х | | Protection of Stratospheric Ozone; see Table A-1 for detailed federal regulatory citations. |
| Chapter 62-210, F.A.C Stationary | Sources - General Requiren | ients | | | |
| 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. | | х | | 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. | Х | | | 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 | | I | · | | |
| Public Notice of Proposed Agency Action | 62-210.350(1), F.A.C. | | Х | | 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 Non₂Applicability Rationals |
|--|----------------------------------|-------------------|----------------------------------|--|---|
| 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. | х | | | Application is for initial Title V operating permit. An administrative permit correction is not requested in this application. |
| Reports | | | | i | |
| 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. | | Х |) | Specifies annual reporting requirements |
| Stack Height Policy | 62-210.550, F.A.C. | х | | | 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. | х | | | 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 I | 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 Nonattain- ment Areas | 62-212.500, F.A.C. | х | | | 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 | l . | | <u> </u> |
| 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. | | х | | 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. | | х | | 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. | Х | | | 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. | | Х | | 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. | | х | | 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 | d Frost Protection Fires | | | | <u> </u> | |
| 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 | | х | | Defines allowed open burning for non- rural land clearing and structure demoli- tion. | |
| Industrial, Commercial, Municipal, and Research Open Burning | 62-256.600, F.A.C. ¹ | | х | | Prohibits industrial open burning | |
| Open Burning allowed | 62-256.700, F.A.C. | х | | | 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 | | х | | 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. | х | | | Contains no applicable requirements | |
| General Pollutant Emission Limiting Standard, Volatile Organic Compounds Emissions | 62-296.320(1), F.A.C. | | х | | 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. | | х | | 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 | | х | | 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. | Х | | | 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. | | х | | 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. | Х | | | 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. | Х | | | 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. | | Х | | 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. | х | | | Exceptions or alternate procedures have not been requested. | | | | |

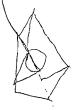


Table A-2. Summary of FDEP Regulatory Applicability and Corresponding Requirements for J.R. Kelly Generating Station (Page 12 of 12)

| Regulation | Citation | Not Applicable | Applicable: Facility- Wide | Applicable: Emission Units | Applicable Requirement or Non-Applicability Rationale |
|--|--------------------|-------------------|----------------------------------|-------------------------------|---|
| Current Permits ¹ (provided for infor | mational 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:

| | Refrigerant | Charge (lb) |
|------|-------------|-------------|
| AA13 | R-11 | 850 |

J.R. KELLY GENERATING STATION ALTERNATIVE METHODS OF OPERATION

Unit No. 6 - Fossil Fuel Steam Generator

| Method | ≠ Fuel | Fuel Sulfur Heat Input — | | Maximum Operating Hours | | Hours |
|--------|----------------------------|--------------------------|-----------------------|-------------------------|----------|----------|
| No. | Туре | Content (Wt %) | Range (MMB- tu/hr) | (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 | Fuel | Fuel Sulfur Heat Input _ | | Maximum Operating Hours | | |
|--------|--|--------------------------|-----------------------|-------------------------|----------|----------|
| No. | Туре | Content (Wt %) | Range (MMB- tu/hr) | (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

| Mathad | Fra a 1 | F -1 C 1C H -4 L | | Maxi | Maximum Operating Hours | | |
|---------------|--|----------------------------|-------------------------------------|----------|-------------------------|----------|--|
| Method No. | Fuel Type | Fuel Sulfur Content (Wt %) | Heat Input Range (MMB- tu/hr) | (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 | |

 $^{^{\}rm 1}$ - Fuel oil sulfur content equivalent to 2.75 lb $SO_{\rm 2}/MMBtu$ heat input.

Combustion Turbines No. 1, 2, and 3

| Method | Fuel | Fuel Fuel Sulfur | | Maximum Operating Hours | | |
|--------|----------------|------------------|-------------------------------|-------------------------|----------|----------|
| No. | Туре | Content (Wt %) | Heat Input Range (MMB- tu/hr) | (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.
- Starting device runs and accelerates from low speed. Turning gear shutdown at 20-percent speed.
- 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.
- 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.
- 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 .IRK 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:

| Chemical or water application to: |
|--|
| Unpaved roadsUnpaved yard areas |
| Paving and maintenance of roads, parking areas and yards. |
| Landscaping or planting of vegetation. |
| Confining abrasive blasting where possible. |
| |

Other techniques, as necessary

| Activity | 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 FDER: 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. |

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Need to Know when these were constructed

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List of Proposed Exempt Activities (Page 2 of 2)

| ١ | | |
|---|--|---|
| | Activity ¹ | Basis ² |
| | Vehicle refueling operations ³ | Low refueling volumes. Rule 62-213.430(6)(b)., F.A.C. |
| 7 | 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. |

"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.
- 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.
- 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)



GAINESVILLE REGIONAL UTILITIES

Strategic Planning

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.

Mr. Scott Sheplak September 18, 1997 Page 2

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

Sr. Environmental Engineer

xc:

D. Beck

R. Manasco

A. Morrison, HGSS

G. Swanson CAA Title V

sheplakTV

RECEIVED

SEP 19 1997

BUREAU OF AIR REGULATION

Owner/Authorized Representative or Responsible Official

| | | | | ٠. | i - i - i - i - i - i - i - i - i - i - | |
|----|---|--|---|---|--|---|
| 1. | Name and Title of O | wner/Authorized R | epresent. | ative or Respo | onsible Officia | al: |
| | Name: | Michael L. Kur | rtz | | | |
| | Title: | General Manage | er | | | |
| 2. | Owner/Authorized R | epresentative or Re | sponsibl | e Official Ma | iling Address | • |
| | | | | | | |
| | Organization/Firm: | City of Gaines | sville, | GRU | | |
| | Street Address: | 605 SE 3rd St | reet | | | 7. |
| | City: | Gainesville | State: | FL | Zip Code: | 32601 |
| | | | | | | |
| 3. | Owner/Authorized Re | epresentative or Re | sponsibl | e Official Tel | ephone Numb | ers: |
| | Telephone: (352) | 334 - 2811 | | Fax: (352) | 334 - 2277 | |
| | | | | _ | | |
| 4. | Owner/Authorized Re | epresentative or Re | esponsibl | e Official Sta | tement: | • |
| | I, the undersigned, and addressed in this Apple 62-210.200, F.A.C., applicable. I hereby inquiry, that the state that, to the best of my are based upon reason emissions units and a operated and maintain pollutant emissions for Department of Environment, if granted by | plication for Air Pe of the Title V source certify, based on in ments made in this knowledge, any es inable techniques for ir pollution control ined so as to compli- ound in the statutes onmental Protectio | rmit or the address of application calculul equipment of the Standard result and result | he responsible sed in this app on and belief f tion are true, of emissions r lating emissio ent described ll applicable s tate-of Florid visions thereo | e official, as described after research after research after research and this applications and rules of f. I understander | Tefined in Rule chever is easonable complete and sapplication collutant eation will be control of air the ad that a |

| | | | | 700 |
|------|-----|----|---|-----|
| Sign | atı | 11 | e | |

permitted emissions unit.

Date

Department, and I will promptly notify the Department upon sale or legal transfer of any

^{*} 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 | Fuel Type | Fuel Sulfur Content | Heat Input | Maxi | mum Operating | House |
|--------|---|---------------------|------------|----------|---------------|----------|
| No. | | (Wt %) | Range | (Hrs/Dy) | (Dys/Wk) | (Hrs/Yr) |
| | | | (MMBtu/hr) | - | | |
| 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 | Fuel Type | Fuel Sulfur Content | Heat Input | Maxii | mum Operating | House |
|--------|---|---------------------|---------------------|----------|---------------|----------|
| No. | | (Wt %) | Range (MMBtu/hr) | (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 | Fuel Type | Fuel Sulfur Content | Heat Input | Maxit | num Operating | House . |
|--------|---|---------------------|------------|----------|---------------|----------|
| No. | · | (Wt %) | Range | (Hrs/Dy) | (Dys/Wk) | (Hrs/Yr) |
| | | | (MMBtu/hr) | | | |
| 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 | No | 0 - 584.5 | 24 | 7 | 8,760 |

 $^{^{1}}$ - Fuel oil sulfur content equivalent to 2.75 lb $\mathrm{SO_{2}/MMBtu}$ heat input.

Combustion Turbines No. 1, 2, and 3

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

A:\ALTERNATIVEMETHODS.JRK

REV: 9/16/97



GRAPHIC SCALE



LEGEND



EMISSION POINT NUMBER AND LOCATION

SHANKA SH SE 4th AVE CHIMING THE CONTRACTOR OF THE QHIHIHIHID كلللللللك DRIVE-THRU WW ADMIN, BLDG. S.E. 5th AVENUE СТ-3 ADMINISTRATION & STORAGE BUILDING S.E. DEPOT AVENUE RESIDUAL (ND. 8) FUEL OR RECEMING & STORAGE 840,000 CAL, EACH Underground storage tanks gas: 6,000 gal. gas: 15,000 gal. diesd: 20,000 gal.

(Portions based an 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 | 10/03/97 |
| OF CT-2 EMISSION POINT | 1 1 |
| | |

SE 4th AVE



Phase II Permit Application

Compliance

Yes

Yes

Yes

Yes

Yes

Page 1

| For more information, see instructi | ns 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 J.R. Kelly

Plant Name

FL 664

State ORIS Code

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

| | Man | | | |
|------------|---|--------------------|------------------------------------|--------------------------------|
| a | p 1 — | c | d | • |
| Boiler ID# | Unit Will Hold Allow- ances in Accordance with 40 CFR 72.9(c)(1) | Repowering Plan | New Units Commence Operation Date | Monitor Certification Deadline |
| JRK8 | Yes | NO | | |
| | 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 <u>June 1, 1997.</u>

DEP Form No. 62-210.900(1)(a) - Form

Effective: 7-1-95

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 e 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 Rein part application and issue or deny an Acid Rein permit;
- (2) The owners and operators of each Aoid Rein 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 Rein source and each Acid Rein 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
- (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 Rein Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rein Program. No provision of the Acid Rein Program, the Acid Rein permit application, the Acid Rein 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 calender 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) U less 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,

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Recordkeeping and Reporting Requirements (cont.)

(iv) Copies of all documents used to complete an Acid Rain pert 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 1 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 Rein 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 plens), 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 perts 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 pert, 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 primery responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, eccurate, and complete. I am eware that there are significant penalties for submitting felse statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

| Name | John F. Hancock, Designated Representative | 2 |
|-----------|--|----------------|
| Signature | - Harrich | Date / 2/22/95 |
| | | 7-7 |

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BEST AVAILABLE COPY

United States Envir

ental Protection Agency Acid hain Program

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



Certificate of Representation

Page 1

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

This submission is: X New

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

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

STEP 2 Enter requested information for the designated representative

| Name Mr. John F. Hancock, Jr. | | |
|--|----------------------------|--|
| Address Gainesville Regional Utili P. O. Box 147117 (A132) Gainesville, FL 32614-711 | | |
| 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. McDa | niel | |
|------------------------|----------------|---|
| Address | | |
| Gainesville Regio | onal Utilities | |
| P. O. Box 147117 | (JK33) - | |
| Gainesville, FL | | |
| 904-334-2851 | 904-375-2232 | - |
| Phone Number | 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

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

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) |
|----|----|-------------------|----------|
| | | ne (from Step 1) | |

Certificate - Page 2

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) | Date 2/21/94 |
|---------------------------------------|--------------|
| Signature (alternate) Larry Constant | 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 pwner

| Signature (alt | ernate) | vous CD | To any | <u> </u> | 0810 | 151/14 |
|--|-------------------------|-------------------------|-------------------------|--------------------------|--------------------|--------------|
| | | - | C | | | • |
| City of Gainesville Name Gainesville Regional Utilities | | | | | X Owner | X Operator |
| | Tesville M | T CE | TITCICS | | | |
| JRK8 | \ | | | | | |
| ID# | ID# | ID# | ID# | ID# | 1D# | ID# |
| ID# | ID# | ID# | ID# | ID# | 1D# | ID# |
| Regulatory A | Flori uthoritiesCity | ida Public Commissio | Service (n of the (| Commission City of Ga | (limited inesville | authority |
| | | · · · · · · | | | | |
| | _ | | | | Owner | Operator |
| Name | T | Τ | T | T | | |
| ID# | 1D# | 1D# | ID# | ID# | ID# | ID# |
| ID# | ID# | ID# | (D# | (D# | ID# | ID# |
| | | T. | 1 | | | |
| Regulatory A | uthorities | | | | | |
| | | | | | | |
| ** | | | | | Owner | Operator |
| Name | T | T | T | <u> </u> | | |
| ID# | ID# | ID# | ID# | 10# | ID# | ID# |
| ID# | ID# | ID# | ID# | ID# | iD# | 1D# |
| | | | | | | - |
| Regulatory A | uthorities | | | | | |
| | | | | | т | |
| Name | | | | | Owner | Operator |
| | | | | | | |
| 1D# | ID# | ID# | ID# | ID# | ID# | ID# |
| ID# | ID# | ID# | ID# | ID# | ID# | ID# |
| Regulatory A | authorities | | | | | |

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

| | | | - | |
|--------|--|--|---|--|
| AIRS . | | | | |
| | | | | |
| FINDS | | | | |