



Environmental Consulting & Technology, Inc.

May 15, 2009

Sent Via FedEx

Ms. Trina Vielhauer
Chief, Bureau of Air Regulation
Florida Department of Environmental Protection
Division of Air Resource Management
111 South Magnolia Drive, Suite 4
Tallahassee, Florida 32301

RECEIVED

MAY 18 2009

BUREAU OF AIR REGULATION

**Re: Gainesville Regional Utilities
Deerhaven Generating Station
Title V Air Operation Permit Renewal Application
Permit No. 0010006-008-AV**

Dear Ms. Vielhauer:

On behalf of the City of Gainesville, Gainesville Regional Utilities (GRU), two copies of an application package to renew the GRU Deerhaven Generating Station Title V Air Operation Permit No. 0010006-008-AV are enclosed for Department review. Pursuant to the requirements of Chapter 62-213.400, F.A.C., the application package contains the Department's *Application for Air Permit - Long Form* and all required supplemental facility and emission unit information.

Please contact Regina Embry at (352) 393-1299 or email at embryrg@gru.com if there are any questions regarding this application.

Sincerely,

ENVIRONMENTAL CONSULTING & TECHNOLOGY, INC.

Thomas W. Davis, P.E.
Vice President

cc: Mr. Greg Strong
FDEP Northeast District

Enclosures

3701 Northwest
98th Street
Gainesville, FL
32606

(352)
332-0444

FAX (352)
332-6722

DEERHAVEN GENERATING STATION

**TITLE V OPERATION PERMIT
RENEWAL APPLICATION**

RECEIVED

MAY 18 2009

Prepared for:

BUREAU OF AIR REGULATION



Prepared by:



ECT No. 090100-0100

May 2009

INTRODUCTION

The City of Gainesville, Gainesville Regional Utilities (GRU) Deerhaven Generating Station (DGS) is located at 100001 Northwest 13th Street in Gainesville, Alachua County, Florida. The DGS is comprised of two fossil fuel-fired steam generating units (Units 1 and 2), three dual fuel simple-cycle combustion turbines (CT Units 1, 2, and 3), storage and handling facilities for coal, fly ash, bottom ash, brine salt, urea, and lime; fuel oil storage tanks; water and wastewater treatment facilities; and ancillary support equipment.

Unit 1 (EU ID 003) is a nominal 75 megawatt (MW) steam generating unit fired with natural gas, Nos. 1 and 2 distillate fuel oils, Nos. 4, 5, and 6 residual fuels oils, on-specification used oil, and propane (for ignition during startups). Unit 1 began commercial operation in 1972 and therefore is only subject to applicable Florida Department of Environmental Protection (FDEP) emission standards. Unit 1 is an affected emission unit under both the Acid Rain Program (ARP) and the Clean Air Interstate Rule (CAIR).

Unit 2 (EU ID 005) is a nominal 251 MW steam generating unit fired with coal, natural gas, and Nos. 1 and 2 distillate fuel oils. Unit 2 began commercial operation in 1981 and is subject to New Source Performance Standard (NSPS) Subpart D, *Standards of Performance for Fossil Fuel-Fired Steam Generators for Which Construction is Commenced After August 17, 1971*. Unit 2 is equipped with a hot-side electrostatic precipitator (ESP) for control of particulate matter (PM) emissions and is in the process of installing additional emission control equipment including selective catalytic reduction (SCR) technology, a circulating dry flue gas desulfurization (FGD) scrubber, and a fabric filter. Installation of the additional Unit 2 emission control systems is authorized by FDEP Air Construction Permit No. 0010006-005-AC issued on August 13, 2007. Unit 2 is an ARP and CAIR affected emission unit and is subject to Compliance Assurance Monitoring (CAM) requirements for PM. Unit 2 was licensed under the Florida Power Plant Siting Act (PPSA) and is subject to the Conditions of Certification (COC) of Case No. PA 74-04H last modified on August 17, 2007.

Simple-cycle CT Unit 3 (EU ID 006) is a nominal 74 MW unit fired with natural gas and Nos. 1 and 2 distillate fuel oils. CT Unit 3 began commercial operation in 1996 and is subject to NSPS Subpart GG, *Standards of Performance for Stationary Gas Turbines* which applies to gas turbines constructed after October 3, 1977. CT Unit 3 was also subject to Prevention of Significant Deterioration (PSD) review, including Best Available Control Technology (BACT). CT Unit 3 was also licensed under the Florida PPSA and is subject to the COC of Case No. PA 74-04H. CT Unit 3 is an ARP and CAIR affected emission unit.

Coal handling and storage facilities (EU ID 007) include railcar unloading equipment, storage piles, belt conveyors, crushing operations, and bunkers.

Simple-cycle CT Units 1 and 2 (EU IDs 001 and 002) each have a nominal general capacity of 20 MW and are classified as *unregulated* emission units (i.e., these units do not emit any emissions-limited pollutants and are not subject to any unit-specific work practice standards). Additional unregulated emission units (EU ID 008) located at the DGS include fly ash, bottom ash, soda ash, salt brine, urea, and lime storage and handling, and water and wastewater treatment systems.

Operation of DGS Unit 2 is currently authorized by FDEP Title V Air Operation Permit No. 0010006-008-AV. This permit was issued with a revision effective date of November 3, 2008, and an expiration date of December 31, 2009.

The FDEP Title V regulations are codified in Chapter 62-213, Florida Administrative Code (F.A.C.), *Operation Permits for Major Sources of Air Pollution*. With respect to Title V air operation permit renewal deadlines, Rule 62-213.420(1)(a)2., F.A.C., requires the permittee to apply for a permit renewal at least 225 days prior to permit expiration for permits that expire on or after June 1, 2009. For the DGS, which has a Title V air operation permit expiration date of December 31, 2009, this regulatory deadline results in the requirement to submit a Title V air operation permit renewal application no later than May 20, 2009.

This application package, consisting of the FDEP's *Application for Air Permit—Long Form, Effective 3/16/08* and all required supplemental facility and emission unit information, constitutes GRU's Title V permit renewal application for the DGS and is submitted to satisfy the requirements of Chapter 62-213.400, F.A.C. The following attachments are included as referenced in the permit application:

- ATTACHMENT A—Facility Location Map
- ATTACHMENT B-1, B-2, B-3, B-4—Facility Plot Plans
- ATTACHMENT C-1, C-2, C-3—Process Flow Diagrams
- ATTACHMENT D—Precautions to Prevent Emissions of Unconfined Particulate Matter
- ATTACHMENT E—List of Insignificant Activities
- ATTACHMENT F—Identification of Applicable Requirements
- ATTACHMENT G—Compliance Report
- ATTACHMENT H—List of Equipment Regulated Under Title VI
- ATTACHMENT I—Acid Rain Part
- ATTACHMENT J—Clean Air Interstate Rule Part
- ATTACHMENT K—Fuel Specifications
- ATTACHMENT L—Detailed Description of Control Equipment
- ATTACHMENT M—Procedures for Startup and Shutdown
- ATTACHMENT N—Compliance Assurance Monitoring
- ATTACHMENT O—Alternate Methods of Operation

**FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION**

APPLICATION FOR AIR PERMIT—LONG FORM



Department of Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

RECEIVED

MAY 18 2009

BUREAU OF AIR REGULATION

I. APPLICATION INFORMATION

Air Construction Permit – Use this form to apply for an air construction permit:

- For any required purpose at a facility operating under a federally enforceable state air operation permit (FESOP) or Title V air operation permit;
- For a proposed project subject to prevention of significant deterioration (PSD) review, nonattainment new source review, or maximum achievable control technology (MACT);
- To assume a restriction on the potential emissions of one or more pollutants to escape a requirement such as PSD review, nonattainment new source review, MACT, or Title V; or
- To establish, revise, or renew a plantwide applicability limit (PAL).

Air Operation Permit – Use this form to apply for:

- An initial federally enforceable state air operation permit (FESOP); or
- An initial, revised, or renewal Title V air operation permit.

To ensure accuracy, please see form instructions.

Identification of Facility

1. Facility Owner/Company Name: City of Gainesville Gainesville Regional Utilities (GRU)	
2. Site Name: Deerhaven Generating Station	
3. Facility Identification Number: 0010006	
4. Facility Location...: Street Address or Other Locator: 10001 NW 13th Street City: Gainesville County: Alachua Zip Code: 33653	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Application Contact

1. Application Contact Name: Regina Embry, Electric Utility Engineer	
2. Application Contact Mailing Address... Organization/Firm: City of Gainesville, Gainesville Regional Utilities (GRU) Street Address: P.O. Box 147117 (A136) City: Gainesville State: Florida Zip Code: 32614-7117	
3. Application Contact Telephone Numbers... Telephone: (352) 393-1299 ext. Fax: (352) 334-3151	
4. Application Contact Email Address: embryrg@gru.com	

Application Processing Information (DEP Use)

1. Date of Receipt of Application: 5-18-09	3. PSD Number (if applicable):
2. Project Number(s): 0010006-010-AV	4. Siting Number (if applicable):

APPLICATION INFORMATION

Purpose of Application

This application for air permit is being submitted to obtain: (Check one)

Air Construction Permit

- Air construction permit.
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL).
- Air construction permit to establish, revise, or renew a plantwide applicability limit (PAL), and separate air construction permit to authorize construction or modification of one or more emissions units covered by the PAL.

Air Operation Permit

- Initial Title V air operation permit.
- Title V air operation permit revision.
- Title V air operation permit renewal.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.
- Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)

- Air construction permit and Title V permit revision, incorporating the proposed project.
- Air construction permit and Title V permit renewal, incorporating the proposed project.

Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:

- I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

Application Comment

GRU has been issued a Final Title V Operation Permit from the FDEP authorizing operation of the Deerhaven Generating Station. Final Title V Operation Permit Revision Number 0010006-008-AV was issued with an effective date of November 3, 2008 and an expiration date of December 31, 2008.

In accordance with Rule 62-213.420(1)(a)2., F.A.C., an application for a Title V permit renewal must be submitted at least 225 days prior to permit expiration for permits that expire on or after June 1, 2009. For the Deerhaven Generating Station, this regulatory deadline results in the submittal of a Title V permit renewal application no later than May 20, 2009. This application and supporting documents constitutes GRU's request for renewal of Final Title V Operation Permit Revision Number 0010006-008-AV per Rule 62-4.090, F.A.C.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
003	Steam Boiler No. 1	N/A	N/A
005	Steam Boiler No. 2	N/A	N/A
006	Simple Cycle Combustion Turbine No. 3	N/A	N/A
007	Coal Handling and Storage Activities	N/A	N/A
001, 002, and 008	Miscellaneous Unregulated Emission Units and/or Activities	N/A	N/A

Application Processing Fee

Check one: Attached - Amount: \$ _____ Not Applicable

Note: The GRU Deerhaven Generating Station has been issued FINAL Title V Permit 0010006-008-AV. An application processing fee is not required pursuant to Rule 62-213.205(4), F.A.C.

APPLICATION INFORMATION

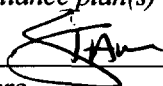
Owner/Authorized Representative Statement **NOT APPLICABLE**
Complete if applying for an air construction permit or an initial FESOP.

1. Owner/Authorized Representative Name:
2. Owner/Authorized Representative Mailing Address Organization/Firm: Street Address: City: State: Zip Code:
3. Owner/Authorized Representative Telephone Numbers Telephone: () ext. Fax: ()
4. Owner/Authorized Representative Email Address:
5. Owner/Authorized Representative Statement: <i>I, the undersigned, am the owner or authorized representative of the corporation, partnership, or other legal entity submitting this air permit application. To the best of my knowledge, the statements made in this application are true, accurate and complete, and any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department.</i> _____ Signature _____ Date

APPLICATION INFORMATION

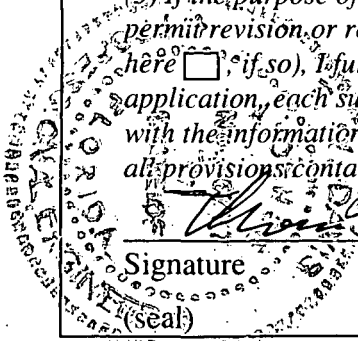
Application Responsible Official Certification

Complete if applying for an initial/revised/renewal Title V permit or concurrent processing of an air construction permit and a revised/renewal Title V permit. If there are multiple responsible officials, the "application responsible official" need not be the "primary responsible official."

1. Application Responsible Official Name: John W. Stanton, Assistant General Manager - Energy Supply
2. Application Responsible Official Qualification (Check one or more of the following options, as applicable): <input type="checkbox"/> For a corporation, the president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production, or operating facilities applying for or subject to a permit under Chapter 62-213, F.A.C. <input type="checkbox"/> For a partnership or sole proprietorship, a general partner or the proprietor, respectively. <input checked="" type="checkbox"/> For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official. <input checked="" type="checkbox"/> The designated representative at an Acid Rain source.
3. Application Responsible Official Mailing Address... Organization/Firm: City of Gainesville, Gainesville Regional Utilities (GRU) Street Address: P.O. Box 147117 (A132) City: Gainesville State: Florida Zip Code: 32614-7117
4. Application Responsible Official Telephone Numbers... Telephone: (352) 393-1789 ext. Fax: (352) 334-2786
5. Application Responsible Official Email Address: stantonjw@gru.com
6. Application Responsible Official Certification: <i>I, the undersigned, am a responsible official of the Title V source addressed in this air permit application. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof and all other applicable requirements identified in this application to which the Title V source is subject. I understand that a permit, if granted by the department, cannot be transferred without authorization from the department, and I will promptly notify the department upon sale or legal transfer of the facility or any permitted emissions unit. Finally, I certify that the facility and each emissions unit are in compliance with all applicable requirements to which they are subject, except as identified in compliance plan(s) submitted with this application.</i> Signature  Date <u>5-13-09</u>

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: Thomas W. Davis Registration Number: 36777
2. Professional Engineer Mailing Address... Organization/Firm: Environmental Consulting & Technology, Inc. Street Address: 3701 Northwest 98th Street City: Gainesville State: Florida Zip Code: 32606-5004
3. Professional Engineer Telephone Numbers... Telephone: (352) 332 - 0444 ext. Fax: (352) 332 - 6722
4. Professional Engineer Email Address: tdavis@ectinc.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i> <i>(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and</i> <i>(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.</i> <i>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input checked="" type="checkbox"/> , 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 plan and schedule is submitted with this application.</i> <i>(4) If the purpose of this application is to obtain an air construction permit (check here <input type="checkbox"/> , if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/> , 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.</i> <i>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/> , if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.</i>  Signature _____ Date <u>5/15/09</u>

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates...		2. Facility Latitude/Longitude...	
Zone 17	East (km) 365.70	Latitude (DD/MM/SS)	Longitude (DD/MM/SS)
	North (km) 3,292.60		
3. Governmental Facility Code:	4. Facility Status Code:	5. Facility Major Group SIC Code:	6. Facility SIC(s):
4	A	49	4911
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: Regina Embry
2. Facility Contact Mailing Address...
Organization/Firm: City of Gainesville, GRU
Street Address: P.O. Box 147117 (A136)
City: Gainesville State: Florida Zip Code: 32614-7117
3. Application Contact Telephone Numbers...
Telephone: (352) 393-1299 ext. Fax: (352) 334-3151
4. Application Contact Email Address: embryrg@gru.com

Facility Primary Responsible Official **NOT APPLICABLE**

Complete if an "application responsible official" is identified in Section I that is not the facility "primary responsible official."

1. Facility Primary Responsible Official Name:
2. Facility Primary Responsible Official Mailing Address...
Organization/Firm:
Street Address
City: State: Zip Code:
3. Facility Primary Responsible Official Telephone Numbers...
Telephone: Fax:
4. Facility Primary Responsible Official E-mail Address:

FACILITY INFORMATION

Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1. <input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2. <input type="checkbox"/> Synthetic Non-Title V Source	
3. <input checked="" type="checkbox"/> Title V Source	
4. <input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. <input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7. <input type="checkbox"/> Synthetic Minor Source of HAPs	
8. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR 60)	
9. <input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR 60)	
10. <input type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR 61 or Part 63)	
11. <input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment:	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
NOX	A	N
SO2	A	N
PM	B	N
PM10	A	N
CO	A	N
Sulfuric Acid Mist (SAM)	B	N
Hydrochloric acid (H106)	A	N
Hydrofluoric acid (H107)	A	N
Total HAPs (HAPs)	A	N

FACILITY INFORMATION

B. EMISSIONS CAPS **NOT APPLICABLE**

Facility-Wide or Multi-Unit Emissions Caps

1. Pollutant Subject to Emissions Cap	2. Facility-Wide Cap [Y or N]? (all units)	3. Emissions Unit ID's Under Cap (if not all units)	4. Hourly Cap (lb/hr)	5. Annual Cap (ton/yr)	6. Basis for Emissions Cap

7. Facility-Wide or Multi-Unit Emissions Cap Comment:

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. B <input type="checkbox"/> Previously Submitted, Date: _____
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. D <input type="checkbox"/> Previously Submitted, Date: _____

Additional Requirements for Air Construction Permit Applications **NOT APPLICABLE**

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction, Modification, or Plantwide Applicability Limit (PAL): <input type="checkbox"/> Attached, Document ID: _____
3. Rule Applicability Analysis: <input type="checkbox"/> Attached, Document ID: _____
4. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
6. Air Quality Analysis (Rule 62-212.400(7), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
7. Source Impact Analysis (Rule 62-212.400(5), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(8) and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications **NOT APPLICABLE**

1. List of Exempt Emissions Units: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable (no exempt units at facility)

Additional Requirements for Title V Air Operation Permit Applications

1. List of Insignificant Activities: (Required for initial/renewal applications only) <input checked="" type="checkbox"/> Attached, Document ID: Attach. E <input type="checkbox"/> Not Applicable
2. Identification of Applicable Requirements: (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. F <input type="checkbox"/> Not Applicable (revision application with no change in applicable requirements)
3. Compliance Report and Plan: (Required for all initial/revision/renewal applications) <input checked="" type="checkbox"/> Attached, Document ID: Attach. G Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing.
4. List of Equipment/Activities Regulated under Title VI: (If applicable, required for initial/renewal applications only) <input checked="" type="checkbox"/> Attached, Document ID: Attach. H <input type="checkbox"/> Equipment/Activities Onsite but Not Required to be Individually Listed <input type="checkbox"/> Not Applicable
5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Requested Changes to Current Title V Air Operation Permit: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

FACILITY INFORMATION

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain, CAIR, or Hg Budget Program

1. Acid Rain Program Forms:

Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):

- Attached, Document ID: **Attach. I** Previously Submitted, Date: _____
 Not Applicable (not an Acid Rain source)

Phase II NO_x Averaging Plan (DEP Form No. 62-210.900(1)(a)1.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

New Unit Exemption (DEP Form No. 62-210.900(1)(a)2.):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable

2. CAIR Part (DEP Form No. 62-210.900(1)(b)):

- Attached, Document ID: **Attach. J** Previously Submitted, Date: _____
 Not Applicable (not a CAIR source)

3. Hg Budget Part (DEP Form No. 62-210.900(1)(c)):

- Attached, Document ID: _____ Previously Submitted, Date: _____
 Not Applicable (not a Hg Budget unit) – **see comment below.**

Additional Requirements Comment

The Clean Air Mercury Rule (CAMR) was vacated by the U.S. DC Circuit Court of Appeals on February 8, 2008.

EU 003

EMISSIONS UNIT INFORMATION

Section [1] of [5]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in this Section: **Steam Boiler Unit No.1**

3. Emissions Unit Identification Number: **003**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit: _____ Model Number: _____
Manufacturer: _____

10. Generator Nameplate Rating: **75 MW**

11. Emissions Unit Comment:
Field 10 is based on:

88,235 kVA @ 1.0 power factor, and 75 MW @ 0.85 power factor.

EMISSIONS UNIT INFORMATION

Section [1] of [5]

Emissions Unit Control Equipment/Method: Control of **NOT APPLICABLE**

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control of

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [1] of [5]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:				
2. Maximum Production Rate:				
3. Maximum Heat Input Rate: 960 million Btu/hr				
4. Maximum Incineration Rate: pounds/hr tons/day				
5. Requested Maximum Operating Schedule: <table><tr><td>24 hours/day</td><td>7 days/week</td></tr><tr><td>52 weeks/year</td><td>8,760 hours/year</td></tr></table>	24 hours/day	7 days/week	52 weeks/year	8,760 hours/year
24 hours/day	7 days/week			
52 weeks/year	8,760 hours/year			
6. Operating Capacity/Schedule Comment: Maximum heat input (Field 3) is applicable for natural gas, fuel oils (Nos 1, 2, 4, 5, or 6), and co-firing of natural gas and fuel oils.				

EMISSIONS UNIT INFORMATION

Section [1] of [5]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: DH-1		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: N/A			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: V	6. Stack Height: 300 feet	7. Exit Diameter: 11.0 feet	
8. Exit Temperature: 285°F	9. Actual Volumetric Flow Rate: 342,700 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: N/A feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [1] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 4

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Natural gas Boilers > 100 MMBtu/hr		
2. Source Classification Code (SCC): 1-01-006-01		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.92	5. Maximum Annual Rate: 8,086	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: 1,040
10. Segment Comment: Unit 1 can co-fire natural gas, fuel oils including residual fuel oils (Nos. 4-6), on-specification used oil, and distillate fuel oils (Nos. 1-2), and propane (for ignition). Maximum hourly rate in Field 4 is based on 960 MMBtu/hr and a nominal natural gas heat content of 1,040 Btu/ft³. Natural gas may also be supplemented with up to 50 gpm of non-hazardous boiler chemical cleaning waste.		

Segment Description and Rate: Segment 2 of 4

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Residual Oil Grade No. 6 Oil: Normal Firing		
2. Source Classification Code (SCC): 1-01-004-01		3. SCC Units: Thousands Gallons Burned
4. Maximum Hourly Rate: 6.40	5. Maximum Annual Rate: 56,064	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 150
10. Segment Comment: Unit 1 can co-fire natural gas, fuel oils including residual fuel oils (Nos. 4-6), on-specification used oil, and distillate fuel oils (Nos. 1-2), and propane (for ignition). Maximum hourly rate in Field 4 is based on 960 MMBtu/hr and a nominal residual fuel oil heat content of 150,000 Btu/gal. Residual fuel oil may also be supplemented with up to 50 gpm of non-hazardous boiler chemical cleaning waste.		

EMISSIONS UNIT INFORMATION

Section [1] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION (CONTINUED)

Segment Description and Rate: Segment 3 of 4

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Distillate Oil Grades 1 and 2 Oil		
2. Source Classification Code (SCC): 1-01-005-01	3. SCC Units: Thousand Gallons Burned	
4. Maximum Hourly Rate: 6.86	5. Maximum Annual Rate: 60,069	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 140
10. Segment Comment: Unit 1 can co-fire natural gas, fuel oils including residual fuel oils (Nos. 4-6), on-specification used oil, and distillate fuel oils (Nos. 1-2), and propane (for ignition). Maximum hourly rate in Field 4 is based on 960 MMBtu/hr and a nominal distillate fuel oil heat content of 140,000 Btu/gal. Distillate fuel oil may also be supplemented with up to 50 gpm of non-hazardous boiler chemical cleaning waste.		

Segment Description and Rate: Segment 4 of 4

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, On-Specification Used Oil		
2. Source Classification Code (SCC): 1-01-013-02	3. SCC Units: Thousand Gallons Burned	
4. Maximum Hourly Rate: 6.40	5. Maximum Annual Rate: 1,500	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: 2.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 150
10. Segment Comment: Maximum hourly rate in Field 4 is based on 960 MMBtu/hr and a nominal on-specification used oil heat content of 150,000 Btu/gal. Specifications: Arsenic - 5 ppm(max.), Cadmium - 2 ppm(max.), Chromium - 10 ppm(max.), Lead - 100 ppm(max.), Total Halogens - 1,000 ppm(max.), Flash Point 100°F (min.), PCB < 50 ppm.		

EMISSIONS UNIT INFORMATION

Section [1] of [5]

E. EMISSIONS UNIT POLLUTANTS**List of Pollutants Emitted by Emissions Unit**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOX			NS
SO2			EL
PM			EL
PM10			NS
CO			NS
VOC			NS
H106 (HCl)			NS
H107 (HF)			NS
HAPS			NS

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 2,640 lb/hour 11,563 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: N/A Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5-years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $SO_2 = (2.75 \text{ lb/MMBtu}) \times (960 \text{ MMBtu/hr}) = 2,640 \text{ lb/hr}$ Annual Rate: $SO_2 = (2,640 \text{ lb/hr}) \times (8,760 \text{ hr/yr}) / (2,000 \text{ lb/ton}) = 11,563 \text{ tons/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 2.75 lb/MMBtu	4. Equivalent Allowable Emissions: 2,640 lb/hour 11,563 tons/year
5. Method of Compliance: EPA Reference Method 6, 6A, 6B, or 6C.	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-296.405(1)(c)1,j,F.A.C. Title V Permit 0010006-003-AV, Condition A.9.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 2.5 weight % sulfur fuel oil	4. Equivalent Allowable Emissions: 2,640 lb/hour 11,563 tons/year
5. Method of Compliance: Fuel analysis using approved ASTM or equivalent methods; each delivery	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-296.405(1)(e)3,F.A.C. Title V Permit 0010006-003-AV, Condition A.10.	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 288 lb/hour 526 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: N/A Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: Soot Blowing: PM = (0.3 lb/MMBtu) x (960 MMBtu/hr) = 288 lb/hr Normal: PM = (0.1 lb/MMBtu) x (960 MMBtu/hr) = 96 lb/hr Annual Rate: Average Permit Limit for normal (0.1 lb/MMBtu @ 21 hrs/dy) and soot blowing (0.3 lb/MMBtu @ 3 hrs/dy) operations. PM = (0.125 lb/MMBtu) x (960 MMBtu/hr) x (8,760 hr/yr) x (1 ton/2,000 lb) = 525.6 tons/yr			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.3 lb/MMBtu	4. Equivalent Allowable Emissions: 288 lb/hour 158 tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 5, 5B, 5F, or 17.	
6. Allowable Emissions Comment (Description of Operating Method): Allowable emission rate applicable during soot-blowing and load change for 3 hours per 24-hour period, per Rule 62-210.700(3), F.A.C. and Title V Permit 0010006-003-AV, Condition A.7. Compliance test only required if fuel oil is burned more than 400 hours per federal fiscal year, other than during startups, per Rule 62-297.310(7)(a)5, F.A.C.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.1 lb/MMBtu	4. Equivalent Allowable Emissions: 96 lb/hour 421 tons/year
5. Method of Compliance: Annual compliance test using EPA Reference Method 5, 5B, 5F, or 17.	
6. Allowable Emissions Comment (Description of Operating Method): Rule 62-296.405(1)(b), F.A.C. and Title V Permit 0010006-003-AV, Condition A.8. Compliance test only required if fuel oil is burned for more than 400 hours per federal fiscal year, other than during startups, per Rule 62-297.310(7)(a)5, F.A.C.	

Allowable Emissions Allowable Emissions ___ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION – POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 119.7 lb/hour 524.3 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 18.70 lb/10³ gal Reference: Table 1.3-4, AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: (Based on 2.5% S fuel oil, normal operations) $\text{PM10} = (18.70 \text{ lb/10}^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 119.7 \text{ lb/hr}$ Annual Rate: (Based on 2.5% S fuel oil, normal operations) $\text{PM10} = (18.70 \text{ lb/10}^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton/2,000 lb}) = 524.3 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 32.0 lb/hour 140.2 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 5 lb/10³ gal Reference: Table 1.3-1, AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: <p>Hourly Rate:</p> $\text{CO} = (5 \text{ lb}/10^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 32.0 \text{ lb/hr}$ <p>Annual Rate:</p> $\text{CO} = (5 \text{ lb}/10^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 140.2 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: <p>Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).</p>			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 4.9 lb/hour 21.3 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.76 lb/10³ gal Reference: Table 1.3-3, AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $\text{VOC} = (0.76 \text{ lb}/10^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 4.9 \text{ lb/hr}$ Annual Rate: $\text{VOC} = (0.76 \text{ lb}/10^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 21.3 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
 (Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: H106 (HCl)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 7.2 lb/hour 31.7 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 1.13 lb/10³ gal No. 6 Fuel Oil (131.8 mg/l Cl) Reference: EPA Boiler MACT Supporting Data		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $\text{HCl} = (1.13 \text{ lb}/10^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 7.2 \text{ lb/hr}$ Annual Rate: $\text{HCl} = (1.13 \text{ lb}/10^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 31.7 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: H107 (HF)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 0.91 lb/hour 4.0 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.143 lb/10³ gal No. 6 Fuel Oil (17.5 ppmw F) Reference: EPA Utility HAP Study		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $HF = (0.143 \text{ lb}/10^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 0.91 \text{ lb/hr}$ Annual Rate: $HF = (0.143/10^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 4.0 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HAPS		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 9.1 lb/hour 40.0 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 1.43 lb/10³ gal (composite) Reference: Tables 1.3-9 & 1.3-11, AP-42 EPA Boiler MACT Supporting Data		7. Emissions Method Code: 3 and 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $\text{HAPS} = (1.43 \text{ lb}/10^3 \text{ gal}) \times (6.40 \times 10^3 \text{ gal/hr}) = 9.1 \text{ lb/hr}$ Annual Rate: $\text{HAPS} = (1.43 \text{ lb}/10^3 \text{ gal}) \times (56,064 \times 10^3 \text{ gal/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 40.0 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of No. 6 fuel oil (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

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G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 4

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 40 % Maximum Period of Excess Opacity Allowed: 2 min/hour	
4. Method of Compliance: DEP Method 9	
5. Visible Emissions Comment: Rule 62-296.405(1)(a), F.A.C. Title V Permit 0010006-003AV, Condition A.5 and A.29 Annual or permit renewal compliance testing is only required if fuel oil is burned, other than during startups, for more than 400 hours per federal fiscal year.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 4

1. Visible Emissions Subtype: VE60	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 60 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: DEP Method 9	
5. Visible Emissions Comment: Rule 62-210.700(3), F.A.C. allows visible emissions up to 60% for a maximum of 3 hours in any 24-hour period during soot blowing and load changes. Title V Permit 0010006-003AV, Condition A.6.	

EMISSIONS UNIT INFORMATION

Section [1] of [5]

G. VISIBLE EMISSIONS INFORMATION (cont'd)

Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 3 of 4

1. Visible Emissions Subtype: N/A	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 24 min/hour	
4. Method of Compliance: DEP Method 9	
5. Visible Emissions Comment: Rule 62-210.700(3), F.A.C. allows visible emissions above 60% for no more than 4, 6-min periods during a 3-hr excess emissions period for soot blowing and load changes. Title V Permit 0010006-003AV, Condition A.6	

Visible Emissions Limitation: Visible Emissions Limitation 4 of 4

1. Visible Emissions Subtype: N/A	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: DEP Method 9	
5. Visible Emissions Comment: Rule 62-210.700(1), F.A.C. allows excess visible emissions resulting from malfunctions for up to 2 hours in any 24-hour period. Rule 62-210.700(2), F.A.C. allows excess visible emissions during startups and shutdowns. Title V Permit 0010006-003AV, Condition A.12 and A.13	

EMISSIONS UNIT INFORMATION

Section [1] of [5]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 1 of 3

1. Parameter Code: VE	2. Pollutant(s): N/A
3. CMS Requirement:	<input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
4. Monitor Information... Manufacturer: Spectrum Model Number: Spectrum 41 Serial Number: 0445-8072	
5. Installation Date: 03/18/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: Although exempted from continuous opacity monitoring as a gas-fired unit based on 40 CFR Part 75.14(c), GRU elected to install COMS in the event the unit becomes subject to 40 CFR Part 75.10(a) in the future.	

Continuous Monitoring System: Continuous Monitor 2 of 3

1. Parameter Code: CO2	2. Pollutant(s): N/A
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Siemens Model Number: Ultramat 6E Serial Number: N1-SN-0860	
5. Installation Date: 03/18/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75.	

EMISSIONS UNIT INFORMATION

Section [1] of [5]

H. CONTINUOUS MONITOR INFORMATION (CONTINUED)

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 3 of 3

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: TECO Model Number: 42C Serial Number: 0436610037	
5. Installation Date: 03/18/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75.	

Continuous Monitoring System: Continuous Monitor of

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [1] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. K <input type="checkbox"/> Previously Submitted, Date: _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. M <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 07/30/2008 Test Date(s)/Pollutant(s) Tested: 06/19-20/2008/PM and VE <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

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EMISSIONS UNIT INFORMATION

Section [2] of [5]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in this Section: **Steam Boiler Unit No.2**

3. Emissions Unit Identification Number: **005**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
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8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit: _____ Model Number: _____
Manufacturer: _____

10. Generator Nameplate Rating: **251 MW**

11. Emissions Unit Comment: **Dry Bottom, Wall-fired Boiler**

Field 10 is based on :

295,000 kVA @ 1.0 power factor

250.75 MW @ 0.85 power factor

EMISSIONS UNIT INFORMATION

Section [2] of [5]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

Electrostatic Precipitator (Research-Cottrell)

2. Control Device or Method Code: **010**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [2] of [5]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: DH-2		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: N/A			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: V	6. Stack Height: 350 feet	7. Exit Diameter: 18.5 feet	
8. Exit Temperature: 352°F	9. Actual Volumetric Flow Rate: 766,500 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: N/A feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment:			

EMISSIONS UNIT INFORMATION

Section [2] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Bituminous/Subbituminous Coal, Pulverized Coal: Dry Bottom (Bituminous Coal)		
2. Source Classification Code (SCC): 1-01-002-02	3. SCC Units: Tons Burned	
4. Maximum Hourly Rate: 93.4	5. Maximum Annual Rate: 818,049	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.8	8. Maximum % Ash: 10.0	9. Million Btu per SCC Unit: 26
10. Segment Comment: Unit can co-fire coal, natural gas, and Nos. 1 and 2 fuel oil. Maximum hourly rate in Field 4 is based on 2,428 MMBtu/hr and a nominal coal heat content of 13,000 Btu/lb		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Natural Gas, Tangentially Fired Units		
2. Source Classification Code (SCC): 1-01-006-04	3. SCC Units: Million Cubic Feet Burned	
4. Maximum Hourly Rate: 0.57	5. Maximum Annual Rate: 4,978	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 1,040
10. Segment Comment: Unit can co-fire coal, natural gas, and Nos. 1 and 2 fuel oil. Maximum hourly rate in Field 4 is based on 591 MMBtu/hr and a nominal natural gas heat content of 1,040 Btu/ft³.		

EMISSIONS UNIT INFORMATION

Section [2] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION (Continued)

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type): External Combustion Boilers, Electric Generation, Distillate Oil, Grades 1 and 2 Oil		
2. Source Classification Code (SCC): 1-01-005-01	3. SCC Units: Thousand Gallons Burned	
4. Maximum Hourly Rate: 6.43	5. Maximum Annual Rate: 56,314	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 140
10. Segment Comment: Unit can co-fire coal, natural gas, and Nos. 1 and 2 fuel oil. Maximum hourly rate in Field 4 is based on 900 MMBtu/hr and a nominal distillate fuel oil heat content of 140,000 Btu/gal.		

Segment Description and Rate: Segment ___ of ___

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

EMISSIONS UNIT INFORMATION

Section [2] of [5]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOX			EL
SO2			EL
PM	010		EL
PM10	010		NS
CO			NS
VOC			NS
H106			NS
H107			NS
HAPS			NS

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOX		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 1,699.6 lb/hour 4,891.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.70 and 0.46 lb/10⁶ Btu Reference: Condition B.7.(3), TV Permit 0010006-003-AV Acid Rain Program – Phase II		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $\text{NOX} = (0.70 \text{ lb}/10^6 \text{ Btu}) \times (2,428 \times 10^6 \text{ Btu/hr}) = 1,699.6 \text{ lb/hr}$ Annual Rate: $\text{NOX} = (0.46 \text{ lb}/10^6 \text{ Btu}) \times (21,269,280 \times 10^6 \text{ Btu/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 4,891.9 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.7 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 1,699.6 lb/hour N/A tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 7, 7A, 7C, 7D, 7E or CEMS	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 60.44(a)(3) – Solid fuels Title V Permit 0010006-003-AV, Condition B.7.(a)(3). Allowable emission rate will be prorated when different fuels are burned simultaneously.	

Allowable Emissions Allowable Emissions 2 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.46 lb/MMBtu (Annual Average)	4. Equivalent Allowable Emissions: N/A lb/hour 4,891.9 tons/year
5. Method of Compliance: CEMS	
6. Allowable Emissions Comment (Description of Operating Method): Acid Rain Program Phase II limit.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 3 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.3 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 728 lb/hour N/A tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 7, 7A, 7C, 7D, 7E or CEMS	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 50.44(a)(2) – Liquid Fuels Title V Permit 0010006-003-AV, Condition B.7.(a)(2). Allowable emission rate will be prorated when different fuels are burned simultaneously.	

Allowable Emissions Allowable Emissions 4 of 4

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.2 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 486 lb/hour N/A tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 7, 7A, 7C, 7D, 7E or CEMS	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 60.44(a)(1) – Gaseous fuels Title V Permit 0010006-003-AV, Condition B.7.(a)(1). Allowable emission rate will be prorated when different fuels are burned simultaneously.	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 2,913.6 lb/hour 12,761.6 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 1.20 lb/10⁶ Btu Reference: Condition B.2.(2), TV Permit 0010006-003-AV		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: <p>Hourly Rate:</p> $\text{SO}_2 = (1.20 \text{ lb}/10^6 \text{ Btu}) \times (2,428 \times 10^6 \text{ Btu}/\text{hr}) = 2,913.6 \text{ lb}/\text{hr}$ <p>Annual Rate:</p> $\text{SO}_2 = (1.20 \text{ lb}/10^6 \text{ Btu}) \times (21,269,280 \times 10^6 \text{ Btu}/\text{yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 12,761.6 \text{ ton}/\text{yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 1.2 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 2,913.6 lb/hour 12,761.6 tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 6, 6A, 6B, 6C or CEMS	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 60.43(a)(2) – Solid Fuels Title V Permit 0010006-003-AV, Condition B.5.(a)(2). Allowable emission rate will be prorated when different fuels are burned simultaneously.	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units: 0.8 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 1,942 lb/hour N/A tons/year
5. Method of Compliance: Annual stack test using EPA Reference Method 6, 6A, 6B, 6C or CEMS	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 60.43(a)(1) – Liquid Fuels Title V Permit 0010006-003-AV, Condition B.5.(a)(1). Allowable emission rate will be prorated when different fuels are burned simultaneously.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: RULE	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.10 lb/MMBtu (3-Hour Average)	4. Equivalent Allowable Emissions: 242.8 lb/hour 1,063.5 tons/year
5. Method of Compliance: Annual compliance test using EPA Reference Method 5 or 17.	
6. Allowable Emissions Comment (Description of Operating Method): 40 CFR Part 60, Subpart D, 60.42(a)(1) – Fossil Fuels Title V Permit 0010006-003-AV, Condition B.4.(a)(1).	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM10		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 50.4 lb/hour 220.9 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.54 lb/ton Reference: Table 1.1-6., AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: PM10 = (0.54 lb/ton) x (93.4 ton/hr) = 50.4 lb/hr Annual Rate: PM10 = (0.54 lb/ton) x (818,049 ton/hr) x (1 ton/2,000 lb) = 220.9 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 46.7 lb/hour 204.5 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.50 lb/ton Reference: Table 1.1-3., AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $CO = (0.50 \text{ lb/ton}) \times (93.4 \text{ ton/hr}) = 46.7 \text{ lb/hr}$ Annual Rate: $CO = (0.50 \text{ lb/ton}) \times (818,049 \text{ ton/hr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 204.5 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: VOC		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 5.6 lb/hour 24.5 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.06 lb/ton Reference: Table 1.1-19., AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $\text{VOC} = (0.06 \text{ lb/ton}) \times (93.4 \text{ ton/hr}) = 5.6 \text{ lb/hr}$ Annual Rate: $\text{VOC} = (0.06 \text{ lb/ton}) \times (818,049 \text{ ton/hr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 24.5 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HCl (H106)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 112.1 lb/hour 490.8 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 1.2 lb/ton Reference: Table 1.1-15., AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: HCl = (1.2 lb/ton) x (93.4 ton/hr) = 112.1 lb/hr Annual Rate: HCl = (1.2 lb/ton) x (818,049 ton/hr) x (1 ton/2,000 lb) = 490.8 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HF (H107)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 14.0 lb/hour 61.4 tons/year		4. Synthetically Limited? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.15 lb/ton Reference: Table 1.1-15., AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: $HF = (0.15 \text{ lb/ton}) \times (93.4 \text{ ton/hr}) = 14.0 \text{ lb/hr}$ Annual Rate: $HF = (0.15 \text{ lb/ton}) \times (818,049 \text{ ton/hr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 61.4 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: Potential emissions based on combustion of coal (worst case fuel).			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [2] of [5]

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: DEP Method 9 or COMS	
5. Visible Emissions Comment: 40 CFR Part 60, Subpart D, 60.42(a)(2). Title V Permit 0010006-003-AV, Condition B.4.(a)(2). Opacity standards do not apply during startup, shutdown, and malfunction per 40 CFR Part 60, Subpart A, 60.11(c).	

Visible Emissions Limitation: Visible Emissions Limitation of

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [2] of [5]

H. CONTINUOUS MONITOR INFORMATION**Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.****Continuous Monitoring System:** Continuous Monitor 1 of 5

1. Parameter Code: VE	2. Pollutant(s): N/A
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Spectrum Model Number: Spectrum 41 Serial Number: 0347-8005	
5. Installation Date: 04/17/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75 and 40 CFR Part 60, Subpart D.	

Continuous Monitoring System: Continuous Monitor 2 of 5

1. Parameter Code: CO2	2. Pollutant(s): N/A
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Siemens Model Number: Ultramat 6E Serial Number: NI-S8-0790	
5. Installation Date: 04/17/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75 and 40 CFR Part 60, Subpart D.	

EMISSIONS UNIT INFORMATION

Section [2] of [5]

H. CONTINUOUS MONITOR INFORMATION (Continued)

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 3 of 5

1. Parameter Code: FLOW	2. Pollutant(s): N/A
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Monitor Labs Model Number: Ultraflow 150 Serial Number: 1500232	
5. Installation Date: 04/17/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75.	

Continuous Monitoring System: Continuous Monitor 4 of 5

1. Parameter Code: EM	2. Pollutant(s): NOX
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: TECO Model Number: 42C Serial Number: 0427508531	
5. Installation Date: 04/17/1994	6. Performance Specification Test Date: 11/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75 and 40 CFR Part 60, Subpart D.	

EMISSIONS UNIT INFORMATION

Section [2] of [5]

H. CONTINUOUS MONITOR INFORMATION (Continued)

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor 5 of 5

1. Parameter Code: EM	2. Pollutant(s): SO2
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: TECO Model Number: 43C Serial Number: 0425408089	
5. Installation Date: 04/17/1994	6. Performance Specification Test Date: 01/01/1995
7. Continuous Monitor Comment: 40 CFR Part 75 and 40 CFR Part 60, Subpart D.	

EMISSIONS UNIT INFORMATION

Section [2] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. K <input type="checkbox"/> Previously Submitted, Date: _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. L <input type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. M <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 07/30/2008 Test Date(s)/Pollutant(s) Tested: 06/23-24/2008/PM, SO₂, NO_x, and VE <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [2] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications **NOT APPLICABLE**

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment F</u>
2. Compliance Assurance Monitoring: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment N</u> <input type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment O</u> <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

EU 006

EMISSIONS UNIT INFORMATION

Section [3] of [5]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)			
<input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).			
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.			
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.			
2. Description of Emissions Unit Addressed in this Section: Combustion Turbine No. 3			
3. Emissions Unit Identification Number: 006			
4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
8. Federal Program Applicability: (Check all that apply)			
<input checked="" type="checkbox"/> Acid Rain Unit			
<input checked="" type="checkbox"/> CAIR Unit			
<input type="checkbox"/> Hg Budget Unit			
9. Package Unit:			
Manufacturer: General Electric		Model Number: MS7001EA	
10. Generator Nameplate Rating: 96.1 MW			
11. Emissions Unit Comment:			
Field 10 is based on :			
115,000 kVA @ 1.0 power factor, and 103.6 MW @ 0.9 power factor (peak)			
113,100 kVA @ 1.0 power factor, and 96.1 MW @ 0.85 power factor (base)			

EMISSIONS UNIT INFORMATION

Section [3] of [5]

Emissions Unit Control Equipment/Method: Control 1 of 2

1. Control Equipment/Method Description:

NO_x (Natural Gas) – Dry low-NO_x (DLN) combustion

2. Control Device or Method Code: **025**

Emissions Unit Control Equipment/Method: Control 2 of 2

1. Control Equipment/Method Description:

NO_x (No. 2 Distillate Fuel Oil) – Wet Injection

2. Control Device or Method Code: **028**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [3] of [5]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate:				
2. Maximum Production Rate:				
3. Maximum Heat Input Rate: 990.6 million Btu/hr, HHV				
4. Maximum Incineration Rate: pounds/hr tons/day				
5. Requested Maximum Operating Schedule: <table><tr><td>24 hours/day</td><td>7 days/week</td></tr><tr><td>weeks/year</td><td>3,900 hours/year</td></tr></table>	24 hours/day	7 days/week	weeks/year	3,900 hours/year
24 hours/day	7 days/week			
weeks/year	3,900 hours/year			
6. Operating Capacity/Schedule Comment: Maximum heat input rate shown in Field 3 is for No. 2 fuel oil at 59°F ambient temperature (ISO conditions)and baseload. Maximum heat input rate when firing natural gas is 971.1 x 10⁶ Btu/hr, HHV at 59°F ambient temperature (ISO conditions and baseload. Heat inputs will vary with CT load and ambient conditions.				

EMISSIONS UNIT INFORMATION

Section [3] of [5]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: DHCT-3		2. Emission Point Type Code: 1	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: N/A			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: V	6. Stack Height: 52 feet	7. Exit Diameter: 14.1 feet	
8. Exit Temperature: 1,100°F	9. Actual Volumetric Flow Rate: 1,573,615 acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: N/A feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment: Fields 8 and 9 : For natural gas at 60% load, 95F, and 50% RH Exit temperature and volumetric flow rate will vary with CTload and ambient conditions.			

EMISSIONS UNIT INFORMATION

Section [3] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 2

1. Segment Description (Process/Fuel Type): Internal Combustion Engines, Electric Generation, Natural Gas, Turbine		
2. Source Classification Code (SCC): 2-01-002-01		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.93	5. Maximum Annual Rate: 3,642	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 1,040
10. Segment Comment: Unit can co-fire natural gas and distillate fuel oils (Nos. 1-2). Fields 4 and 5 maximum hourly and annual rates based on 971.1 x 10⁶ Btu/hr at 59°F and 3,900 hours per year.		

Segment Description and Rate: Segment 2 of 2

1. Segment Description (Process/Fuel Type): Internal Combustion Engines, Electric Generation, Distillate Oil (Nos. 1 and 2), Turbine		
2. Source Classification Code (SCC): 2-01-001-01		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 7.1	5. Maximum Annual Rate: 14,151	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.05	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 140
10. Segment Comment: Unit can co-fire natural gas and distillate fuel oils (Nos. 1-2). Fields 4 and 5 maximum hourly and annual rates based on 990.6 x 10⁶ Btu/hr at 59°F and 2,000 hours per year.		

EMISSIONS UNIT INFORMATION

Section [3] of [5]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
SO2			EL
NOX	025, 028		EL
CO			NS
PM/PM10			NS
SAM			NS
H106 (HCl)			NS
H107 (HF)			NS
HAPS			NS

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SO2		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 50.0 lb/hour 53.2 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.0505 lb/10⁶ Btu, HHV (fuel oil) 0.0034 lb/10⁶ Btu, HHV (natural gas) Reference: Table 3.1-2a, AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: <p>Hourly Rate: (0.05 % S fuel oil)</p> $\text{SO}_2 = (0.0505 \text{ lb}/10^6 \text{ Btu}) \times (990.6 \times 10^6 \text{ Btu}/\text{hr, HHV}) = 50.0 \text{ lb}/\text{hr}$ <p>Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr)</p> $\text{SO}_2 = [(50.0 \text{ lb}/\text{hr} \times 2,000 \text{ hr}/\text{yr}) + (0.0034 \times (971.1 \times 10^6 \text{ Btu}/\text{hr, HHV}) \times (1,900 \text{ hr}/\text{yr})) \times (1 \text{ ton}/2,000 \text{ lb})$ $\text{SO}_2 = 53.2 \text{ ton}/\text{yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: <p>CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.</p>			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 1

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 0.05 weight % S	4. Equivalent Allowable Emissions: 50.0 lb/hour 50.0 tons/year
5. Method of Compliance: Fuel sampling and analysis per applicable ASTM methods.	
6. Allowable Emissions Comment (Description of Operating Method): TV Permit No. 00100006-003-AV, Condition C.6. (Fuel Oil)	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: NOX		2. Total Percent Efficiency of Control:	
3. Potential Emissions: 184.0 lb/hour 239.1 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code: 0	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: <p>Hourly Rates: Fuel oil-firing: 42 ppmvd NO_x @ 15% O₂ = 184 lb/hr Gas-firing: 15 ppmvd NO_x @ 15% O₂ = 58 lb/hr</p> <p>Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr)</p> <p>NO_x = [(184 lb/hr x 2,000 hr/yr) + (58 lb/hr) x (1,900 hr/yr)] x (1 ton/2,000 lb)</p> <p>NO_x = 239.1 ton/yr</p>			
11. Potential, Fugitive, and Actual Emissions Comment: <p>CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.</p>			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.

Allowable Emissions Allowable Emissions 1 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 42 ppmvd @ 15% O₂	4. Equivalent Allowable Emissions: 184 lb/hour 184 tons/year
5. Method of Compliance: EPA Reference Method (RM) 20	
6. Allowable Emissions Comment (Description of Operating Method): TV Permit No. 00100006-003-AV, Condition C.6. (Fuel Oil)	

Allowable Emissions Allowable Emissions 2 of 2

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions: N/A
3. Allowable Emissions and Units: 15 ppmvd @ 15% O₂	4. Equivalent Allowable Emissions: 58 lb/hour 113.1 tons/year
5. Method of Compliance: EPA RM 20	
6. Allowable Emissions Comment (Description of Operating Method): TV Permit No. 00100006-003-AV, Condition C.6. (Natural Gas)	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: CO		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 75.3 lb/hour 89.1 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.076 lb/10⁶ Btu, HHV (fuel oil) 0.015 lb/10⁶ Btu, HHV (fuel oil) Reference: Table 3.1-1, AP-42		7. Emissions Method Code: 3	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): -----Tons/year N/A -----		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: (fuel oil) CO = (0.076 lb/10⁶ Btu) x (990.6 x 10⁶ Btu/hr, HHV) = 75.3 lb/hr Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr) CO = [(75.3 lb/hr x 2,000 hr/yr) + (0.015 x (971.1 x 10⁶ Btu/hr, HHV) x (1,900 hr/yr))] x (1 ton/2,000 lb) CO = 89.1 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: PM/PM10	2. Total Percent Efficiency of Control: N/A
3. Potential Emissions: 14.9 lb/hour 21.5 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year	
6. Emission Factor: 0.015 lb/10⁶ Btu, HHV (fuel oil) 0.0072 lb/10⁶ Btu, HHV (fuel oil) Reference: PSD-FL-212	7. Emissions Method Code: 5
8.a. Baseline Actual Emissions (if required): Tons/year N/A	8.b. Baseline 24-month Period: N/A From: To:
9.a. Projected Actual Emissions (if required): Tons/year N/A	9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A
10. Calculation of Emissions: Hourly Rate: (fuel oil) PM = (0.015 lb/10⁶ Btu) x (990.6 x 10⁶ Btu/hr, HHV) = 14.9 lb/hr Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr) PM = [(14.9 lb/hr x 2,000 hr/yr) + (0.0072 x (971.1 x 10⁶ Btu/hr, HHV) x (1,900 hr/yr))] x (1 ton/2,000 lb) PM = 21.5 ton/yr	
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: SAM (H₂SO₄ Mist)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 6.0 lb/hour 8.9 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.0061 lb/10⁶ Btu, HHV (fuel oil) 0.0031 lb/10⁶ Btu, HHV (fuel oil) Reference: PSD-FL-212		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: (fuel oil) SAM = (0.0061 lb/10⁶ Btu) x (990.6 x 10⁶ Btu/hr, HHV) = 6.0 lb/hr Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr) SAM= [(6.0 lb/hr x 2,000 hr/yr) + (0.0031 x (971.1 x 10⁶ Btu/hr, HHV) x (1,900 hr/yr))] x (1 ton/2,000 lb) SAM = 8.9 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
 POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: H106 (Hydrogen Chloride – HCl)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 1.9 lb/hour 22.7 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.00187 lb/10⁶ Btu, HHV (30 mg/l Cl – fuel oil) Reference: EPA Boiler MACT Study		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: (fuel oil) $\text{HCl} = (0.000187 \text{ lb}/10^6 \text{ Btu}) \times (990.6 \times 10^6 \text{ Btu/hr, HHV}) = 1.9 \text{ lb/hr}$ Annual Rate: (Fuel oil for 2,000 hr/yr) $\text{HCl} = (1.9 \text{ lb/hr} \times 2,000 \text{ hr/yr}) \times (1 \text{ ton}/2,000 \text{ lb}) = 1.9 \text{ ton/yr}$			
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**
(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: H107 (Hydrogen Fluoride – HF)		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 0.94 lb/hour 0.94 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: 0.000947 lb/10⁶ Btu, HHV (17.5 ppmw F – fuel oil) Reference: EPA Utility HAP Study		7. Emissions Method Code: 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: (fuel oil) HCl = (0.0000947 lb/10⁶ Btu) x (990.6 x 10⁶ Btu/hr, HHV) = 0.94 lb/hr Annual Rate: (Fuel oil for 2,000 hr/yr) HCl= (0.94 lb/hr x 2,000 hr/yr) x (1 ton/2,000 lb) = 0.94 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
 ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

1. Pollutant Emitted: HAPS		2. Total Percent Efficiency of Control: N/A	
3. Potential Emissions: 4.7 lb/hour 5.7 tons/year		4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): N/A To tons/year			
6. Emission Factor: Composite for fuel oil + natural gas Reference: EPA Boiler MACT and Utility HAP Studies Tables 3.1-3, 3.1-4, and 3.1-5 AP-42		7. Emissions Method Code: 3 and 5	
8.a. Baseline Actual Emissions (if required): Tons/year N/A		8.b. Baseline 24-month Period: N/A From: To:	
9.a. Projected Actual Emissions (if required): Tons/year N/A		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years N/A	
10. Calculation of Emissions: Hourly Rate: HAPS = 4.7 lb/hr Annual Rate: (Fuel oil for 2,000 hr/yr + natural gas for 1,900 hr/yr) HAPS = 5.7 ton/yr			
11. Potential, Fugitive, and Actual Emissions Comment: CT3 may operate up to 3,900 hr/yr, including up to 2,000 hr/yr while firing fuel oil, per Condition C.0. of TV Permit No. 0010006-003-AV.			

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [3] of [5]

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE10	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 10 % Exceptional Conditions: 27 % Maximum Period of Excess Opacity Allowed: 6 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Specific Condition Condition C.6. of TV Permit No. 0010006-003-AV. VE test not required if fuel oil is fired for no more than 400 hrs/yr.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: N/A	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-210.700(1), F.A.C. allows excess emissions resulting from startups, shutdowns, or malfunctions for up to 2 hours in any 24-hour period.	

EMISSIONS UNIT INFORMATION

Section [3] of [5]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor **1** of **2**

1. Parameter Code: EM	2. Pollutant(s): NO_x
3. CMS Requirement:	<input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: TECO Model Number: 42C Serial Number: 0436510216	
5. Installation Date: 01/01/1996	6. Performance Specification Test Date: 01/01/1996
7. Continuous Monitor Comment: Required by 40 CFR Part 75 (Acid Rain Program), 40 CFR Part 96 (CAIR), and NSPS Subpart GG excess emissions monitoring. Also used as a continuous as a continuous compliance method pursuant to 40 CFR Part 64 (Compliance Assurance Monitoring).	

Continuous Monitoring System: Continuous Monitor **2** of **2**

1. Parameter Code: CO2	2. Pollutant(s): N/A
3. CMS Requirement:	<input type="checkbox"/> Rule <input checked="" type="checkbox"/> Other
4. Monitor Information... Manufacturer: Siemens Model Number: Ultramat 6E Serial Number: N1-SO-0484	
5. Installation Date: 01/01/1996	6. Performance Specification Test Date: 01/01/1996
7. Continuous Monitor Comment: Required by 40 CFR Part 75 (Acid Rain Program), 40 CFR Part 96 (CAIR), and NSPS Subpart GG excess emissions monitoring. Also used as a continuous as a continuous compliance method pursuant to 40 CFR Part 64 (Compliance Assurance Monitoring).	

EMISSIONS UNIT INFORMATION

Section [3] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. K <input type="checkbox"/> Previously Submitted, Date: _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. L <input type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. M <input type="checkbox"/> Previously Submitted, Date _____ <input type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: 07/30/2008 Test Date(s)/Pollutant(s) Tested: 07/02/2008/NO_x and VE <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

EMISSIONS UNIT INFORMATION

Section [3] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Air Construction Permit Applications NOT APPLICABLE

1. Control Technology Review and Analysis (Rules 62-212.400(10) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment F</u>
2. Compliance Assurance Monitoring: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment O</u> <input type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

Additional Requirements Comment

EU 007

EMISSIONS UNIT INFORMATION

Section [4] of [5]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in this Section: **Coal Handling and Storage**

3. Emissions Unit Identification Number: **007**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
--	---	--	---

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: **MW**

11. Emissions Unit Comment:

This emissions unit represents all coal handling and storage activities. Crushing and handling equipment downstream of the coal bunkers are completely enclosed and are not included.

EMISSIONS UNIT INFORMATION

Section [4] of [5]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description:

Enclosure: Partial enclosures for CH-001, CH-002, and CH-003; Total enclosures for CH010, CH011, crushing and bunkering equipment.

Telescoping Chute: CH-004 and CH-005

2. Control Device or Method Code: **054, 099**

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:

2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [4] of [5]

B. EMISSIONS UNIT CAPACITY INFORMATION
(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 3,000 tons/hr
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8,760 hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [4] of [5]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram: CH-001 through CH-011		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: Transfer points, conveyor belts, storage piles.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: N/A			
5. Discharge Type Code: F	6. Stack Height: N/A feet	7. Exit Diameter: N/A feet	
8. Exit Temperature: 77°F	9. Actual Volumetric Flow Rate: N/A acfm	10. Water Vapor: N/A %	
11. Maximum Dry Standard Flow Rate: N/A dscfm		12. Nonstack Emission Point Height: 25 feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment: Non-stack emission point height (Field 12) is an estimated average height of the various fugitive emission sources above ground level.			

EMISSIONS UNIT INFORMATION

Section [4] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

1. Segment Description (Process/Fuel Type): Industrial Processes, Mineral Products, Bulk Materials, Coal		
2. Source Classification Code (SCC): 3-05-102-03		3. SCC Units: Tons Transferred or Handled
4. Maximum Hourly Rate: 3,000	5. Maximum Annual Rate: 818,049	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: N/A
10. Segment Comment: Hourly rate in Field 4 represents maximum coal belt conveyor transfer rate.		

Segment Description and Rate: Segment ___ of ___

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

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions of

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [4] of [5]

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation.

Visible Emissions Limitation: Visible Emissions Limitation 1 of 2

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Specific Condition I.A.5.a. of Site Certification PA 74-04, Rule 62-296.320 (4)(b), F.A.C., and 40 CFR Part 60.252(c) [NSPS Subpart Y]. Title V Permit 0010006-003-AV, Condition F.1.	

Visible Emissions Limitation: Visible Emissions Limitation 2 of 2

1. Visible Emissions Subtype: N/A	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: 100 % Maximum Period of Excess Opacity Allowed: 60 min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: Rule 62-210.700(1), F.A.C. allows excess emissions for up to 2 hours in any 24-hour period during startup, shutdown, and malfunction.	

EMISSIONS UNIT INFORMATION

Section [4] of [5]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring.

Continuous Monitoring System: Continuous Monitor ___ of ___ **NOT APPLICABLE**

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number: Serial Number:	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [4] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Previously Submitted, Date: ???? Test Date(s)/Pollutant(s) Tested: ????/VE <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable



EU 001, 002 & 008



EMISSIONS UNIT INFORMATION

Section [5] of [5]

III. EMISSIONS UNIT INFORMATION

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)

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.

Emissions Unit Description and Status

1. Type of Emissions Unit Addressed in this Section: (Check one)

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

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

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

2. Description of Emissions Unit Addressed in this Section:
All emission units and activities identified in Appendix U-1 of Title V Permit No. 0010006-008-AV.

3. Emissions Unit Identification Number: **001, 002, and 008**

4. Emissions Unit Status Code: A	5. Commence Construction Date: N/A	6. Initial Startup Date: N/A	7. Emissions Unit Major Group SIC Code: 49
--	---	--	---

8. Federal Program Applicability: (Check all that apply)

Acid Rain Unit

CAIR Unit

Hg Budget Unit

9. Package Unit:
Manufacturer: _____ Model Number: _____

10. Generator Nameplate Rating: _____

11. Emissions Unit Comment:
Includes material (lime, soda ash, brine, and fly ash) trucks, handling and storage, on-site landfill operations, brine spray dryer, groundwater aerator, and two simple cycle combustion turbines.

EMISSIONS UNIT INFORMATION

Section [5] of [5]

Emissions Unit Control Equipment/Method: Control 1 of 1

1. Control Equipment/Method Description: Fabric Filter – Low Temperature (<180°F); Material Storage Silos
2. Control Device or Method Code: 018

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

Emissions Unit Control Equipment/Method: Control ___ of ___

1. Control Equipment/Method Description:
2. Control Device or Method Code:

EMISSIONS UNIT INFORMATION

Section [5] of [5]

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule **NOT APPLICABLE**

1. Maximum Process or Throughput Rate:
2. Maximum Production Rate:
3. Maximum Heat Input Rate: million Btu/hr
4. Maximum Incineration Rate: pounds/hr tons/day
5. Requested Maximum Operating Schedule: hours/day days/week weeks/year hours/year
6. Operating Capacity/Schedule Comment:

EMISSIONS UNIT INFORMATION

Section [5] of [5]

C. EMISSION POINT (STACK/VENT) INFORMATION

(Optional for unregulated emissions units.)

Emission Point Description and Type NOT APPLICABLE

1. Identification of Point on Plot Plan or Flow Diagram:	2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking:		
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:		
5. Discharge Type Code:	6. Stack Height: feet	7. Exit Diameter: feet
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %
11. Maximum Dry Standard Flow Rate: dscfm	12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):	14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) : Longitude (DD/MM/SS) :	
15. Emission Point Comment:		

EMISSIONS UNIT INFORMATION

Section [5] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 3

1. Segment Description (Process/Fuel Type): Internal Combustion Engines, Electric Generation, Natural Gas, Turbine [Each simple cycle combustion turbine]		
2. Source Classification Code (SCC): 2-01-002-01		3. SCC Units: Million Cubic Feet Burned
4. Maximum Hourly Rate: 0.29	5. Maximum Annual Rate: 2,511	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 1,040
10. Segment Comment: Field 4 is based on 298 MMBtu/hr heat input and a nominal natural gas heat content as indicated in Field 9. Base load conditions, 95oF, 185 ft elevation, HHV fuel.		

Segment Description and Rate: Segment 2 of 3

1. Segment Description (Process/Fuel Type): Internal Combustion Engines, Electric Generation, Distillate Oil, Turbine [Each simple cycle combustion turbine]		
2. Source Classification Code (SCC): 2-01-001-01		3. SCC Units: Thousand Gallons Burned
4. Maximum Hourly Rate: 1.99	5. Maximum Annual Rate: 17,457	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.5	8. Maximum % Ash: 0.1	9. Million Btu per SCC Unit: 140
10. Segment Comment: Field 4 is based on 279 MMBtu/hr and a nominal distillate fuel oil heat content of 140,000 Btu/gal. Base load conditions, 95F, 185 ft elevation, HHV fuel.		

EMISSIONS UNIT INFORMATION

Section [5] of [5]

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 3 of 3

1. Segment Description (Process/Fuel Type): Air Stripping of Groundwater (Aerator)		
2. Source Classification Code (SCC): 25-04-104-20		3. SCC Units: Thousand gallons treated
4. Maximum Hourly Rate: 112.5	5. Maximum Annual Rate: 985,500	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: N/A	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: N/A
10. Segment Comment: Field 4 is based on 1,875 gpm. Field 5 based on 8,760 hr/yr.		

Segment Description and Rate: Segment of

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

EMISSIONS UNIT INFORMATION

Section [5] of [5]

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
NOX			NS
SO2			NS
PM	018		NS
PM10	018		NS
CO			NS
VOC			NS
H106 (HCl)			NS
H107 (HF)			NS
HAPS			NS

EMISSIONS UNIT INFORMATION

Section [5] of [5]

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –
POTENTIAL, FUGITIVE, AND ACTUAL EMISSIONS**

(Optional for unregulated emissions units.)

Complete a Subsection F1 for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V operation permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.

Potential, Estimated Fugitive, and Baseline & Projected Actual Emissions

NOT APPLICABLE

1. Pollutant Emitted:		2. Total Percent Efficiency of Control:	
3. Potential Emissions: lb/hour		4. Synthetically Limited? <input type="checkbox"/> Yes <input type="checkbox"/> No	
5. Range of Estimated Fugitive Emissions (as applicable): to tons/year			
6. Emission Factor: Reference:		7. Emissions Method Code:	
8.a. Baseline Actual Emissions (if required): tons/year		8.b. Baseline 24-month Period: From: To:	
9.a. Projected Actual Emissions (if required): tons/year		9.b. Projected Monitoring Period: <input type="checkbox"/> 5 years <input type="checkbox"/> 10 years	
10. Calculation of Emissions:			
11. Potential, Fugitive, and Actual Emissions Comment:			

EMISSIONS UNIT INFORMATION

Section [5] of [5]

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -
ALLOWABLE EMISSIONS**

Complete Subsection F2 if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation. **NOT APPLICABLE**

Allowable Emissions Allowable Emissions ___ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ___ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

Allowable Emissions Allowable Emissions ___ of ___

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

EMISSIONS UNIT INFORMATION

Section [5] of [5]

G. VISIBLE EMISSIONS INFORMATION

Complete Subsection G if this emissions unit is or would be subject to a unit-specific visible emissions limitation. **NOT APPLICABLE**

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

Visible Emissions Limitation: Visible Emissions Limitation ___ of ___

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

EMISSIONS UNIT INFORMATION

Section [5] of [5]

H. CONTINUOUS MONITOR INFORMATION

Complete Subsection H if this emissions unit is or would be subject to continuous monitoring. **NOT APPLICABLE**

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
8. Continuous Monitor Comment:	

Continuous Monitoring System: Continuous Monitor ___ of ___

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
9. Continuous Monitor Comment:	

EMISSIONS UNIT INFORMATION

Section [5] of [5]

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

1. Process Flow Diagram: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. C <input type="checkbox"/> Previously Submitted, Date: _____
2. Fuel Analysis or Specification: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: Attach. K <input type="checkbox"/> Previously Submitted, Date: _____
3. Detailed Description of Control Equipment: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Procedures for Startup and Shutdown: (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
5. Operation and Maintenance Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records: <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ _____ <input checked="" type="checkbox"/> Not Applicable Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

ATTACHMENT A

FACILITY LOCATION MAP



GRAPHIC SCALE

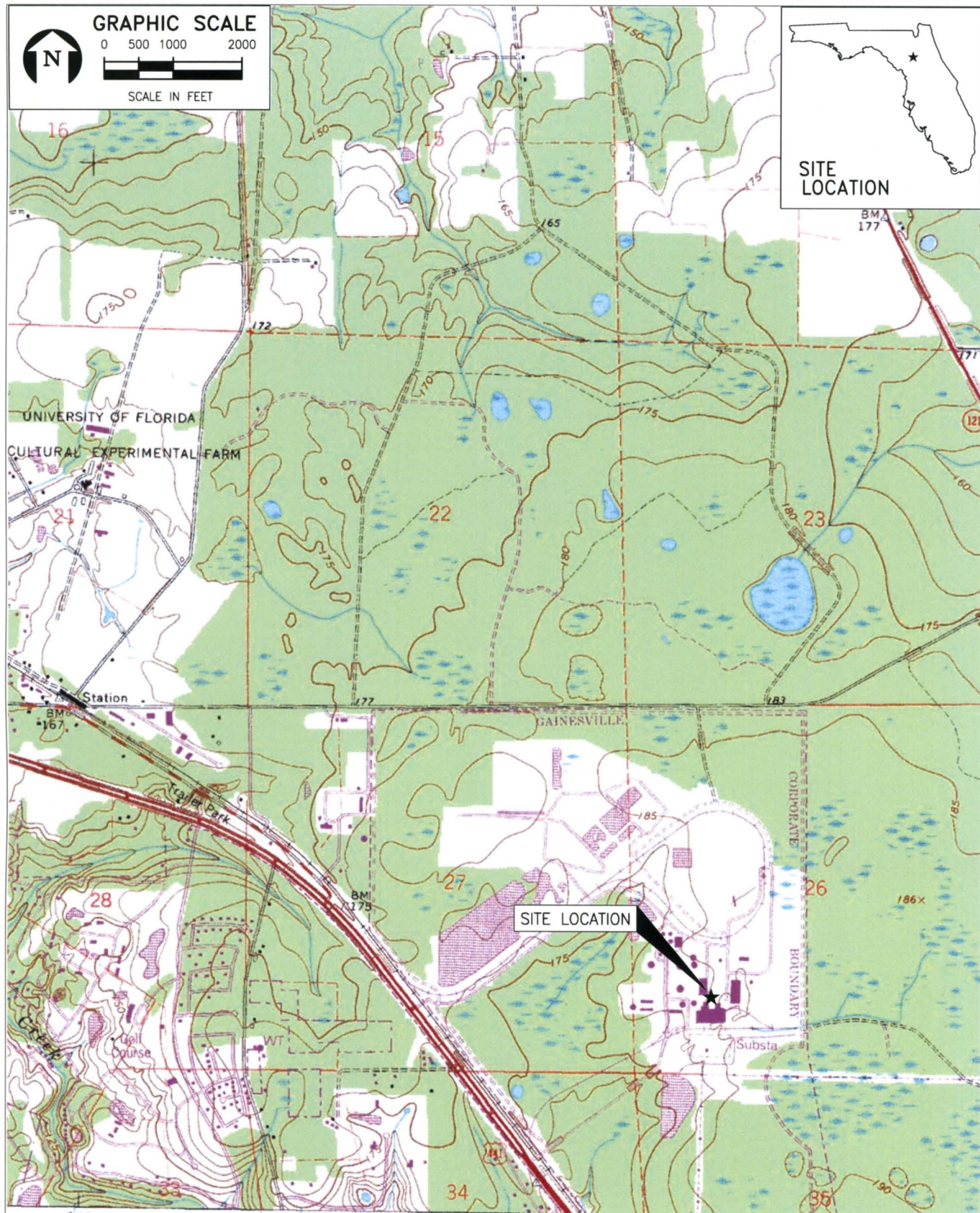
0 500 1000 2000



SCALE IN FEET



SITE LOCATION



ATTACHMENT A.

**DEERHAVEN GENERATING STATION
FACILITY LOCATION MAP**

Sources: USGS Quad; Alachua, FL, 1993; ECT, 2009.



ATTACHMENTS B-1, B-2, B-3, AND B-4

FACILITY PLOT PLANS



ATTACHMENT B-1

DEERHAVEN GENERATING STATION - OVERALL FACILITY PLOT PLAN

Source: ECT, 2009.



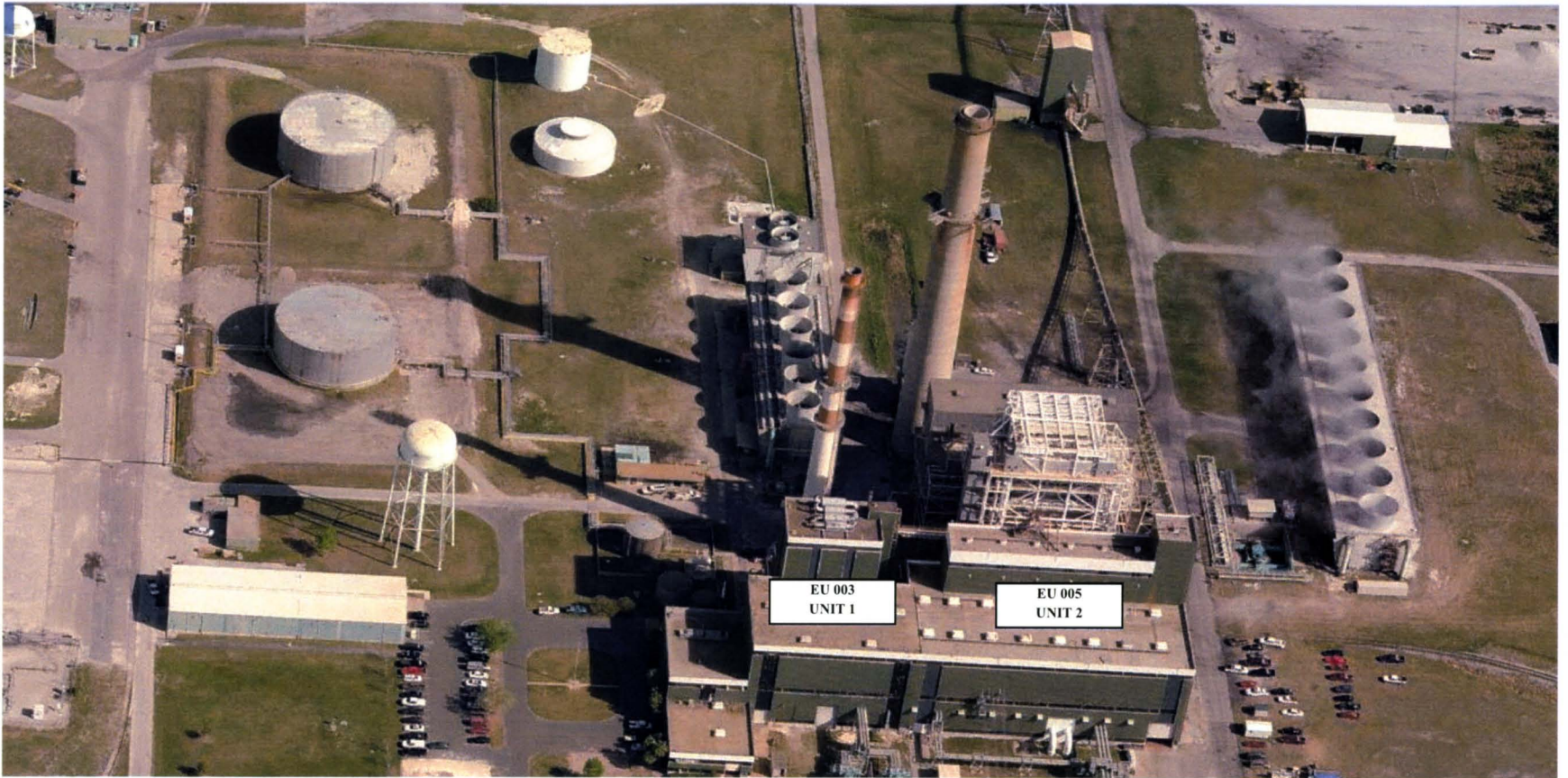


ATTACHMENT B-2

DEERHAVEN GENERATING STATION - POWER BLOCK AREA

Source: ECT, 2009.



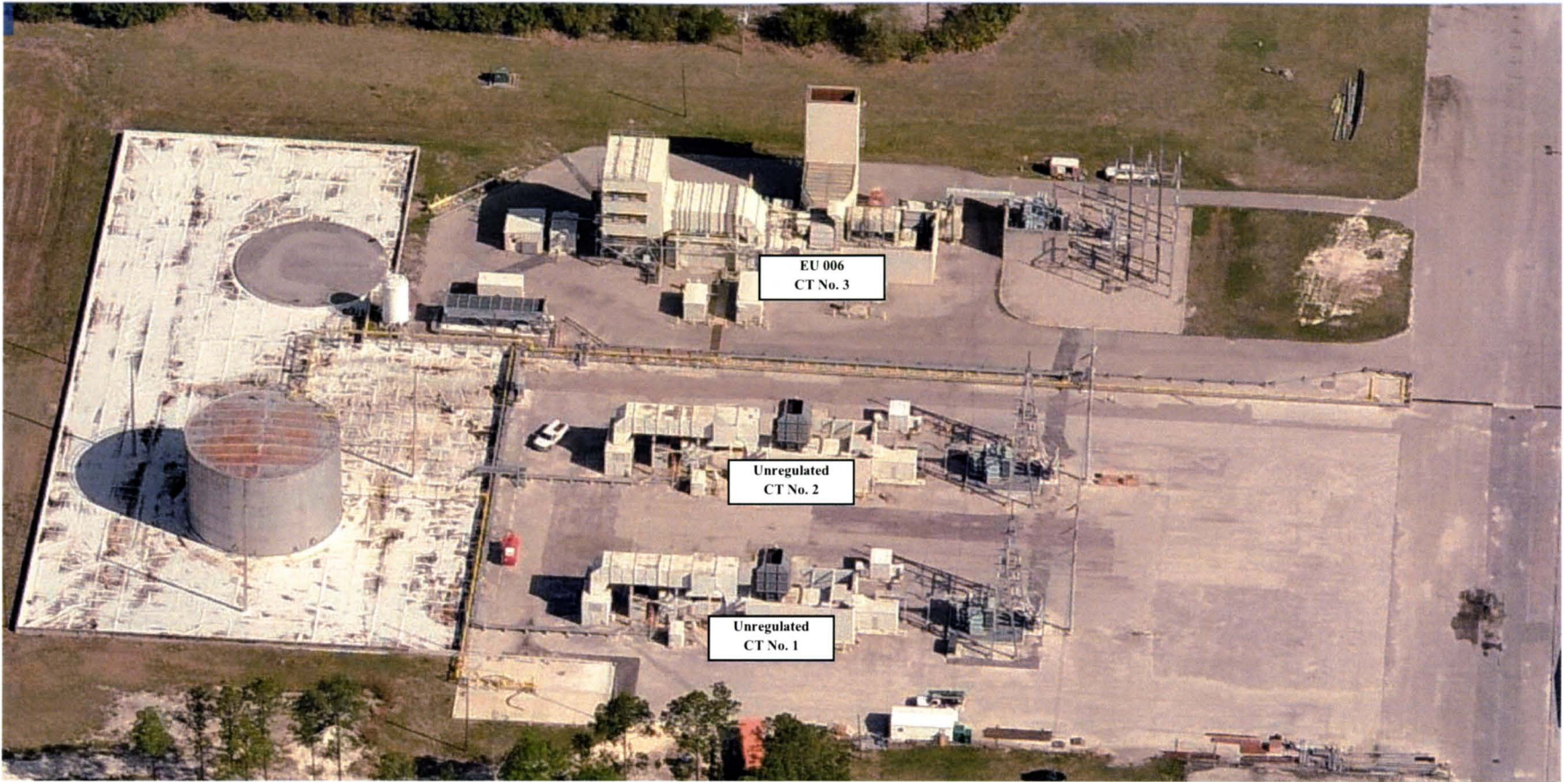


ATTACHMENT B-3

DEERHAVEN GENERATING STATION - UNITS 1 AND 2 PLOT PLAN

Source: ECT, 2009.





ATTACHMENT B-4

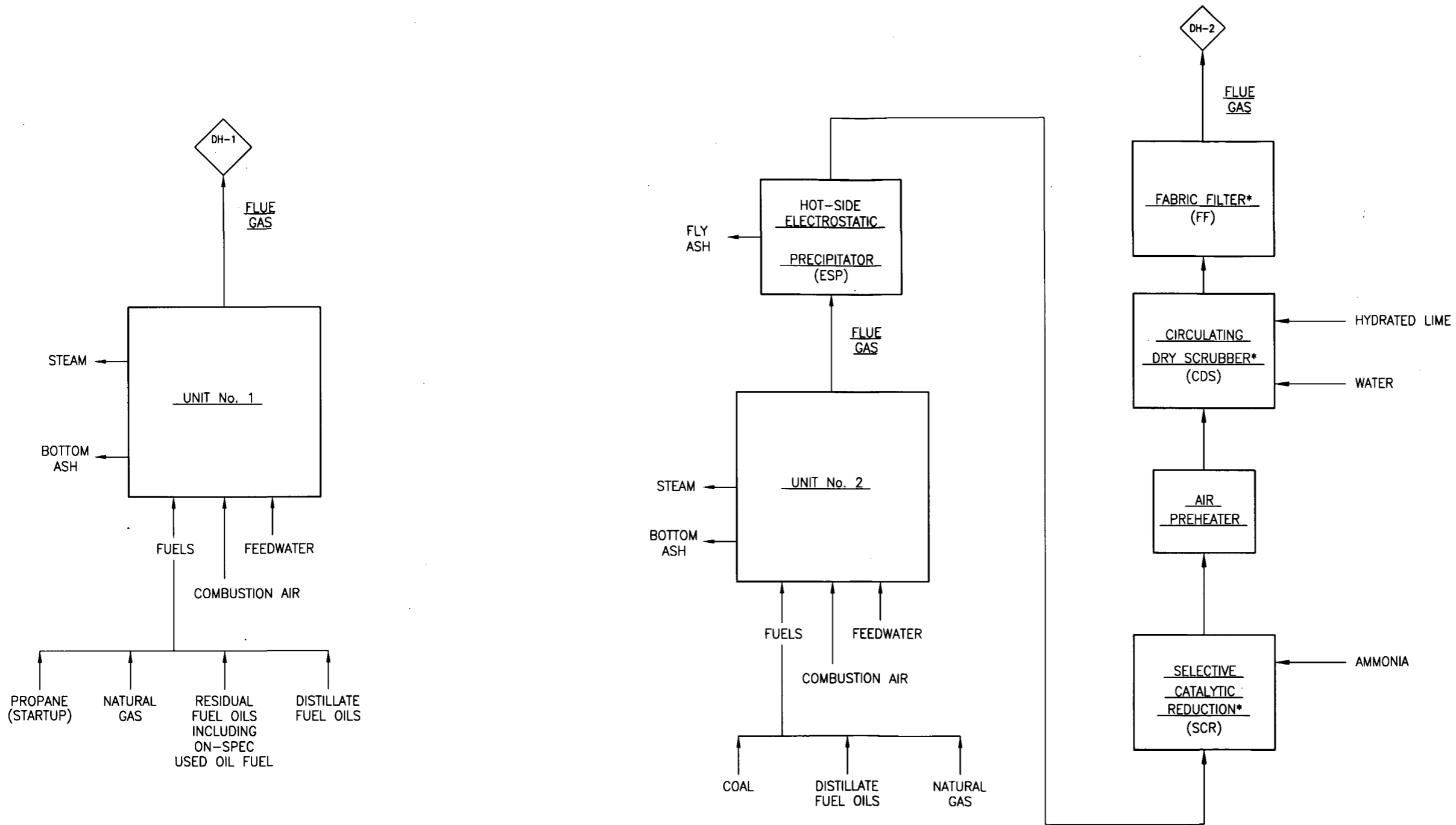
DEERHAVEN GENERATING STATION - CT NOS. 1, 2, and 3 PLOT PLAN

Source: ECT, 2009.



ATTACHMENTS C-1, C-2, AND C-2

PROCESS FLOW DIAGRAMS



LEGEND

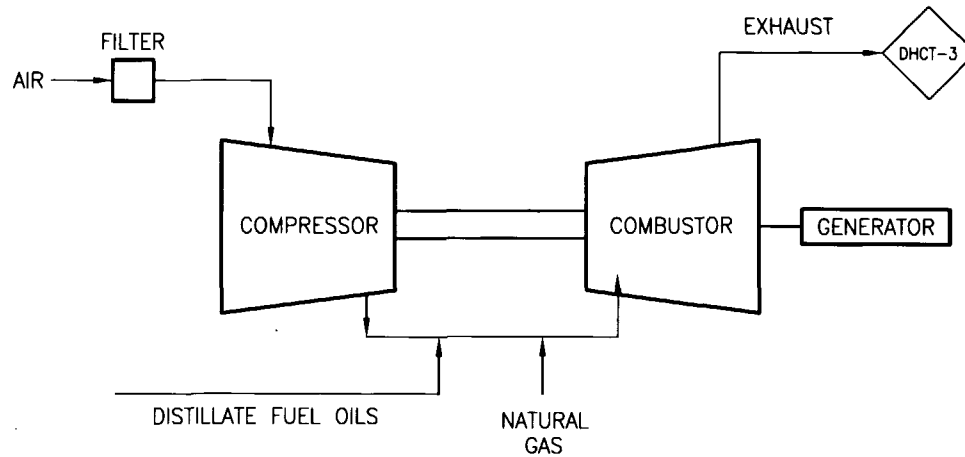
DH-2 EMISSION POINT

* - CURRENTLY UNDER CONSTRUCTION

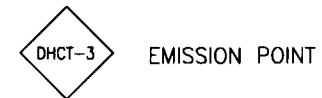
ATTACHMENT C-1.
DEERHAVEN GENERATING STATION
UNITS 1 AND 2 PROCESS FLOW DIAGRAM

Sources: ECT, 2009.





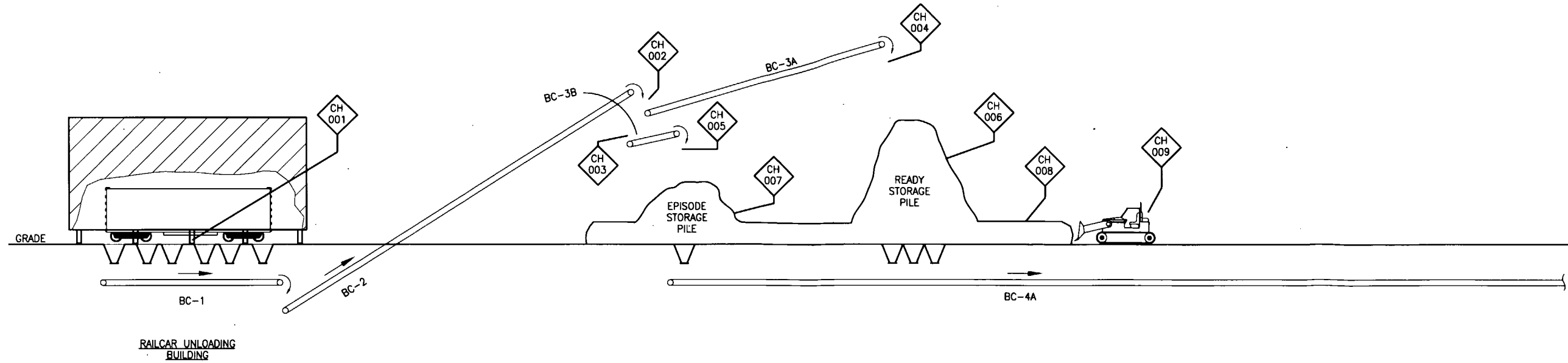
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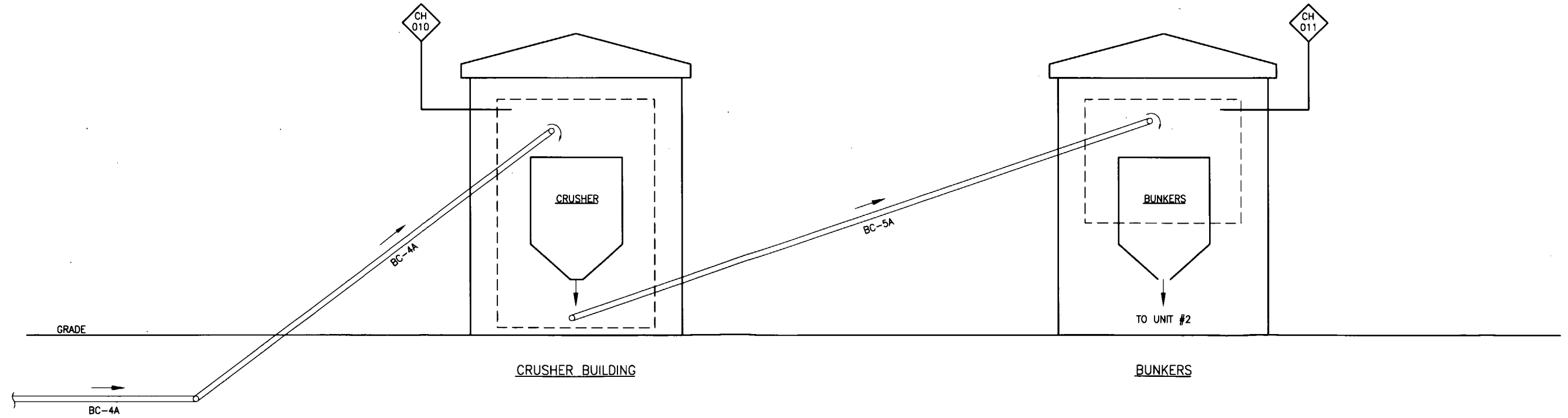
ATTACHMENT C-2.
DEERHAVEN GENERATING STATION
COMBUSTION TURBINE No. 3 PROCESS FLOW DIAGRAM

Source: ECT, 2009.





LEGEND



ATTACHMENT C-3.
 DEERHAVEN GENERATING STATION
 COAL HANDLING PROCESS FLOW DIAGRAM
 Source: ECT, 2009.



ATTACHMENT D

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

ATTACHMENT D

DEERHAVEN GENERATING STATION PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

Unconfined particulate matter (PM) emissions that may result from operations at the Deerhaven Generating Station include:

- Vehicular traffic on paved and unpaved roads.
- Wind-blown dust from yard and landfill areas.
- Periodic abrasive blasting.
- Materials (coal, fly ash, bottom ash, urea, lime, and brine salt) handling and storage piles.

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

- Paving and maintenance of roads, parking areas, and yards.
- Chemical (dust suppressants) or water application to:
 - Unpaved roads.
 - Unpaved yard areas.
 - Open stock piles.
- Landscaping or planting of vegetation.
- Confining abrasive blasting where possible.
- Other techniques, as necessary.

ATTACHMENT E
LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT E

DEERHAVEN GENERATING STATION LIST OF INSIGNIFICANT ACTIVITIES

1. Internal combustion engines - mobile sources.
2. Vacuum pumps in laboratory operations.
3. Equipment used for steam cleaning.
4. Equipment used exclusively for space heating, other than boilers.
5. Laboratory equipment used exclusively for chemical or physical analyses.
6. Brazing, soldering, or welding equipment.
7. Fire protection and safety equipment.
8. Petroleum lubrication systems.
9. Application of fungicide, herbicide, or pesticide.
10. Vehicle refueling operations and associated fuel storage.
11. Degreasing units using heavier-than air vapors exclusively that do not use any substance containing a hazardous air pollutant.
12. Non-halogenated solvent storage and cleaning operations that do not use any substance containing a hazardous air pollutant.
13. Surface coating operations within a single facility, provided:
 - a. The surface coating operation shall use only coatings containing 5.0 percent or less VOC, by volume, or the total quantity of coatings containing greater than 5.0 percent VOC, by volume, used at the facility shall not exceed 6.0 gallons per day, averaged monthly, where the quantity of coatings used includes all solvents and thinners used in the process or for cleanup.
 - b. Such operations are not subject to any unit-specific applicable requirement.
14. Fossil fuel steam generators, hot water generators, and other external combustion heating units with heat input capacity equal to or less than 10 million British thermal units per hour (mmBtu/hr), provided the following conditions are met with respect to each such unit.
 - a. The unit is not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.
 - b. The rated heat input capacity of the unit is equal to or less than 10 mmBtu/hr and, collectively, the total rated heat input capacity of all units claiming this exemption at the same facility is less than 10 mmBtu/hr.
 - c. The unit shall not burn used oil or any fuels other than natural gas or propane, except that fuel oil with a sulfur content not exceeding 1.0 percent by weight may be burned during periods of natural gas curtailment.

ATTACHMENT E

DEERHAVEN GENERATING STATION LIST OF INSIGNIFICANT ACTIVITIES

15. Fossil fuel steam generators, hot water generators, and other external combustion heating units with heat input capacity less than 100 mmBtu/hr, provided the following conditions are met with respect to each such unit.
 - a. The unit is not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.
 - b. The rated heat input capacity of the unit is less than 100 mmBtu/hr and, collectively, the total rated heat input capacity of all units claiming this exemption at the same facility is less than 250 mmBtu/hr.
 - c. The unit shall not burn more than the maximum annual amount of a single fuel, as given in 15.e., or equivalent maximum annual amounts of multiple fuels, as addressed in 15.f.
 - d. Collectively, all units claiming this exemption at the same facility shall not burn more than the collective maximum annual amount of a single fuel, as given in 15.g., or equivalent collective maximum annual amounts of multiple fuels, as addressed in 15.h..
 - e. If burning only one type of fuel, the annual amount of fuel burned by the unit shall not exceed 150 million standard cubic feet of natural gas, one million gallons of propane, one million gallons of fuel oil with a sulfur content not exceeding 0.05 percent, by weight, 290,000 gallons of fuel oil with a sulfur content not exceeding 0.5 percent, by weight, or 145,000 gallons of fuel oil with a sulfur content not exceeding 1.0 percent, by weight.
 - f. If burning more than one type of fuel, the equivalent annual amount of each fuel burned by the unit shall not exceed the maximum annual amount of such fuel, as given in 15.e., multiplied by a fuel percentage. The fuel percentage is the percentage ratio of the total annual amount of the fuel burned by the unit to the total annual amount of such fuel allowed to be burned by the unit pursuant to 15.e. The sum of the fuel percentages for all fuels burned by the unit must be less than or equal to 100 percent.
 - g. If burning only one type of fuel, the collective annual amount of fuel burned by all units claiming this exemption at the same facility shall not exceed 375 million standard cubic feet of natural gas, 2.5 million gallons of 44 propane, 2.5 million gallons of fuel oil with a sulfur content not exceeding 0.05 percent, by weight, 290,000 gallons of fuel oil with a sulfur content not exceeding 0.5 percent, by weight, or 145,000 gallons of fuel oil with a sulfur content not exceeding 1.0 percent, by weight.
 - h. If burning more than one type of fuel, the equivalent collective annual amount of each fuel burned by the units claiming this exemption at the same facility shall not exceed the collective maximum annual amount of such fuel, as given in 15.g., multiplied by a fuel percentage. The fuel percentage is the percentage ratio of the total annual amount of the fuel burned by all units claiming this exemption at the same facility to the total annual amount of such fuel allowed to be burned by all units claiming this exemption at the same facility pursuant to 15.g. The sum of the fuel percentages for all fuels burned by the units claiming this exemption at the same facility must be less than or equal to 100 percent.
16. One or more emergency generators provided:
 - a. The unit is not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.

ATTACHMENT E

DEERHAVEN GENERATING STATION LIST OF INSIGNIFICANT ACTIVITIES

- b. The unit shall not burn used oil or any fuels other than natural gas, propane, gasoline, and diesel fuel.
 - c. Collectively, all units claiming this exemption at the same facility shall not burn more than the collective maximum annual amount of a single fuel, as given in 16.d., or equivalent collective maximum annual amounts of multiple fuels, as addressed in 16.e.
 - d. If burning only one type of fuel, the collective annual amount of fuel burned by all units claiming this exemption at the same facility shall not exceed 2,700 gallons of gasoline, 32,000 gallons of diesel fuel, 144,000 gallons of propane, or 4.4 million standard cubic feet of natural gas.
 - e. If burning more than one type of fuel, the equivalent collective annual amount of each fuel burned by the units claiming this exemption at the same facility shall not exceed the collective maximum annual amount of such fuel, as given in 16.d., multiplied by a fuel percentage. The fuel percentage is the percentage ratio of the total amount of the fuel burned by all units claiming this exemption at the same facility to the total amount of such fuel allowed to be burned by all units claiming this exemption at the same facility pursuant to 16.d. The sum of the fuel percentages for all fuels burned by the units claiming this exemption at the same facility must be less than or equal to 100 percent.
17. General purpose internal combustion engines, and other reciprocating internal combustion devices, provided the following conditions are met with respect to each such unit.
- a. The unit is not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.
 - b. The unit shall not burn used oil or any fuels other than natural gas, propane, gasoline, and diesel fuel.
 - c. Collectively, all units claiming this exemption at the same facility shall not burn more than the collective maximum annual amount of a single fuel, as given in 17.d., or equivalent collective maximum annual amounts of multiple fuels, as addressed in 17. e.
 - d. If burning only one type of fuel, the collective annual amount of fuel burned by all units claiming this exemption at the same facility shall not exceed 2,700 gallons of gasoline, 32,000 gallons of diesel fuel, 144,000 gallons of propane, or 4.4 million standard cubic feet of natural gas.
 - e. If burning more than one type of fuel, the equivalent collective annual amount of each fuel burned by the units claiming this exemption at the same facility shall not exceed the collective maximum annual amount of such fuel, as given in 17.d., multiplied by a fuel percentage. The fuel percentage is the percentage ratio of the total amount of the fuel burned by all units claiming this exemption at the same facility to the total amount of such fuel allowed to be burned by all units claiming this exemption at the same facility pursuant to 17.d. The sum of the fuel percentages for all fuels burned by the units claiming this exemption at the same facility must be less than or equal to 100 percent.
18. Belt conveyors.
19. Turbine vapor extractor.

ATTACHMENT E

DEERHAVEN GENERATING STATION LIST OF INSIGNIFICANT ACTIVITIES

20. Combustion of on-site generated boiler non-hazardous cleaning chemicals in Units 1 and 2. This activity occurs approximately once every 3 to 5 years.
21. Railcar maintenance.
22. Application of fungicides, herbicides, and pesticides.
23. Asbestos renovation and demolition activities.
24. Steam turbine and auxiliary boiler lube oil vents.
25. Gas turbine lube oil reservoirs and vents.
26. Gas turbine dump tank vents.
27. Waste and used oil storage tanks.
28. Turbine and lube oil storage tanks.
29. Diesel fuel oil storage tanks.
30. Distillate (Nos. 1 and 2) and residual (Nos. 4, 5, and 6) fuel oil storage tanks.
31. Wastewater treatment equipment.
32. Storage tanks less than 550 gallons.
33. Architectural (equipment) maintenance painting.
34. Diesel fuel oil, distillate (Nos. 1 and 2) fuel oils, and residual (Nos. 4, 5, and 6) fuel oils truck unloading.
35. Natural gas safety relief valves.
36. Fresh water cooling towers and related equipment.
37. Oil/water separators.

ATTACHMENT E

DEERHAVEN GENERATING STATION LIST OF INSIGNIFICANT ACTIVITIES

38. Disposal of narcotics (approximately 150 lb/yr) using a portable 55-gallon drum "Drug Terminator" combustion device.
39. Any other emissions unit or activity that:
 - a. It would be subject to no unit-specific applicable requirement.
 - b. It would neither emit nor have the potential to emit:
 - (I) 500 pounds per year or more of lead and lead compounds expressed as lead;
 - (II) 1,000 pounds per year or more of any hazardous air pollutant;
 - (III) 2,500 pounds per year or more of total hazardous air pollutants; or
 - (IV) 5.0 tons per year or more of any other regulated pollutant.
 - c. Its emissions, in combination with the emissions of other units and activities at the facility, would not cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.
 - d. In the case of a proposed new emissions unit at an existing facility, the emissions of such unit, in combination with the emissions of any other proposed new or modified units and activities at the facility, would not result in a modification subject to the preconstruction review requirements of subparagraph 62-204.800(11)(d)2., Rule 62-212.400 or 62-212.500, F.A.C.
 - e. In the case of a proposed new pollutant-emitting activity, such activity would not constitute a modification of any existing non-exempt emissions unit at a non-Title V source or any existing non-insignificant emissions unit at a Title V source.

ATTACHMENT F

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT F

DEERHAVEN GENERATING STATION IDENTIFICATION OF APPLICABLE REQUIREMENTS

A. FACILITY-WIDE REQUIREMENTS

Federal:

40 CFR 61, Subpart M: NESHAP for Asbestos.

40 CFR 82: Protection of Stratospheric Ozone.

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

State:

CHAPTER 62-4, F.A.C.: PERMITS, effective 03-16-08

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

CHAPTER 62-210, F.A.C.: STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 10-12-08

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

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

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

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

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

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

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

62-210.350, F.A.C.: Public Notice and Comment.

62-210.350(1), F.A.C.: Public Notice of Proposed Agency Action.

ATTACHMENT F

DEERHAVEN GENERATING STATION IDENTIFICATION OF APPLICABLE REQUIREMENTS

62-210.350(2), F.A.C.: Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Nonattainment-Area Preconstruction Review.

62-210.350(3), F.A.C.: Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources.

62-210.360, F.A.C.: Administrative Permit Corrections.

62-210.370(2), F.A.C.: Computation of Emissions.

62-210.370(3), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility.

62-210.650, F.A.C.: Circumvention.

62-210.700, F.A.C.: Excess Emissions. **[Not Applicable to Unit 2]**

62-210.900, F.A.C.: Forms and Instructions.

62-210.900(1), F.A.C.: Application for Air Permit – Long Form, Form and Instructions.

62-210.900(5), F.A.C.: Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions.

62-210.900(7), F.A.C.: Application for Transfer of Air Permit – Title V and Non-Title V Source.

CHAPTER 62-212, F.A.C.: STATIONARY SOURCES - PRECONSTRUCTION REVIEW, effective 10-06-08

62-212.300, F.A.C.: General Preconstruction Review Requirements.

62-212.400, F.A.C.: Prevention of Significant Deterioration (PSD).

62-212.500, F.A.C.: Preconstruction Review for Nonattainment Areas.

62-212.710, F.A.C.: Air Emissions Bubble.

62-212.720, F.A.C.: Actuals Plantwide Applicability Limits (PALS).

CHAPTER 62-213, F.A.C.: OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 10-12-08

62-213.205, F.A.C.: Annual Emissions Fee.

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

62-213.405, F.A.C.: Concurrent Processing of Permit Applications.

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

62-213.412, F.A.C.: Immediate Implementation Pending Revision Process.

62-213.415, F.A.C.: Trading of Emissions Within a Source.

62-213.420, F.A.C.: Permit Applications.

62-213.430, F.A.C.: Permit Issuance, Renewal, and Revision.

62-213.440, F.A.C.: Permit Content.

62-213.450, F.A.C.: Permit Review by EPA and Affected States

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

ATTACHMENT F

DEERHAVEN GENERATING STATION IDENTIFICATION OF APPLICABLE REQUIREMENTS

62-213.900, F.A.C.: Forms and Instructions.
62-213.900(1), F.A.C.: Major Air Pollution Source Annual Emissions Fee Form.
62-213.900(7), F.A.C.: Statement of Compliance Form.
62-213.900(8), F.A.C.: Responsible Official Notification Form.

CHAPTER 62-256, F.A.C.: OPEN BURNING AND FROST PROTECTION FIRES, effective 10-06-08

CHAPTER 62-296, F.A.C.: STATIONARY SOURCES - EMISSION STANDARDS, effective 10-06-08

62-296.320(2), F.A.C.: Objectionable Odor Prohibited.
62-296.320(3), F.A.C.: Permitted Open Burning.
62-296.320(4)(b), F.A.C.: General Visible Emissions Standard.
62-296.320(4)(c), F.A.C.: Unconfined Emissions of Particulate Matter.

CHAPTER 62-297, F.A.C.: STATIONARY SOURCES - EMISSIONS MONITORING, effective 02-12-04

62-297.310, F.A.C.: General Test Requirements.
62-297.320, F.A.C.: Standards for Persons Engaged in Visible Emissions Observations.
62-297.401, F.A.C.: Compliance Test Methods.
62-297.440, F.A.C.: Supplementary Test Procedures.
62-297.620, F.A.C.: Exceptions and Approval of Alternate Procedures and Requirements.

Miscellaneous:

CHAPTER 28-106, F.A.C.: DECISIONS DETERMINING SUBSTANTIAL INTERESTS, effective 12-24-07

CHAPTER 62-110, F.A.C.: EXCEPTION TO THE UNIFORM RULES OF PROCEDURE, effective 07-01-98

B. UNIT NO. 1; EU ID NO. 003

ACID RAIN PROGRAM (ARP)

40 CFR 72: Permits Regulation
40 CFR 75: Continuous Emissions Monitoring
40 CFR 77: Excess Emissions
40 CFR 78: Appeal Procedures

ATTACHMENT F

DEERHAVEN GENERATING STATION IDENTIFICATION OF APPLICABLE REQUIREMENTS

CLEAN AIR INTERSTATE RULE (CAIR)

40 CFR 96: NO_x Budget Trading Program and CAIR NO_x and SO₂ Trading Programs for State Implementation Plans

Rule 62-213.413, F.A.C.: Fast-Track Revision of Acid Rain Parts.

CHAPTER 62-214, F.A.C.: REQUIREMENTS FOR SOURCES SUBJECT TO THE FEDERAL ACID RAIN PROGRAM, effective 03-16-08

Rule 62-296.405(1), F.A.C.: Fossil Fuel Steam Generators with More Than 250 Million Btu Per Hour Heat Input.

Rule 62-296.470, F.A.C.: Implementation of Federal Clean Air Interstate Rule (CAIR).

FINAL Permit No: 00100006-003-AV, Section III., Subsection A., Emissions Unit No. 003; Permit Condition Nos. A.1. through A.33.

C. UNIT 2; EU ID NO. 005

NEW SOURCE PERFORMANCE STANDARDS

40 CFR 60, Subpart A: General Provisions

§60.7: Notification and Recordkeeping

§60.8: Performance Tests

§60.11: Compliance with Standards and Maintenance Requirements

§60.12: Circumvention

§60.13: Monitoring Requirements

§60.19: General Notification and Reporting Requirements

40 CFR 60, Subpart D: Standards of Performance for Fossil-Fuel-Fired steam Generators for Which Construction is Commenced After August 17, 1971.

§60.40: Applicability and Designation of Affected Facility

§60.41: Definitions

§60.42: Standards for Particulate Matter (PM)

§60.43: Standards for Sulfur Dioxide (SO₂)

§60.44: Standards for Nitrogen Oxides (NO_x)

§60.45: Emissions and Fuel Monitoring

§60.46: Test Methods and Procedures

ATTACHMENT F

DEERHAVEN GENERATING STATION IDENTIFICATION OF APPLICABLE REQUIREMENTS

COMPLIANCE ASSURANCE MONITORING (FOR PM ONLY)

40 CFR 64, Compliance Assurance Monitoring (CAM)

§64.1 Definitions

§64.2 Applicability

§64.3 Monitoring Plan Design

§64.4 Submittal Requirements

§64.5 Deadlines for Submittals

§64.7 Operation of Approved Monitoring

§64.8 Quality Improvement Plan (QIP) Requirements

§64.9 Reporting and Recordkeeping Requirements

§64.10 Savings Provisions

ACID RAIN PROGRAM (ARP)

40 CFR 72: Permits Regulation

40 CFR 75: Continuous Emissions Monitoring

40 CFR 77: Excess Emissions

40 CFR 78: Appeal Procedures

CLEAN AIR INTERSTATE RULE (CAIR)

40 CFR 96: NO_x Budget Trading Program and CAIR NO_x and SO₂ Trading Programs for State Implementation Plans

FINAL Permit No: 00100006-003-AV, Section III., Subsection B., Emissions Unit No. 005; Permit Condition Nos. B.1. through B.15.

C. COMBUSTION TURBINE NO. 3; EU ID NO. 006

NEW SOURCE PERFORMANCE STANDARDS

40 CFR 60, Subpart A: General Provisions

§60.7: Notification and Recordkeeping

§60.8: Performance Tests

§60.11: Compliance with Standards and Maintenance Requirements

§60.12: Circumvention

§60.13: Monitoring Requirements

§60.19: General Notification and Reporting Requirements

40 CFR 60, Subpart GG: Standards of Performance for Stationary Gas Turbines

§60.330: Applicability and Designation of Affected Facility

§60.331: Definitions

§60.332(a)(1): Standard for Nitrogen Oxides

§60.333: Standard for Sulfur Dioxide

§60.334(b), (c), (h), (i), and (j): Monitoring of Operations

§60.335: Test Methods and Procedures

ATTACHMENT F

**DEERHAVEN GENERATING STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS**

ACID RAIN PROGRAM (ARP)

40 CFR 72: Permits Regulation
40 CFR 75: Continuous Emissions Monitoring
40 CFR 77: Excess Emissions
40 CFR 78: Appeal Procedures

CLEAN AIR INTERSTATE RULE (CAIR)

40 CFR 96: NO_x Budget Trading Program and CAIR NO_x and SO₂ Trading Programs for State Implementation Plans

Rule 62-213.413, F.A.C.: Fast-Track Revision of Acid Rain Parts.

**CHAPTER 62-214, F.A.C.: REQUIREMENTS FOR SOURCES SUBJECT TO
THE FEDERAL ACID RAIN PROGRAM, effective 03-16-08**

Rule 62-296.470, F.A.C.: Implementation of Federal Clean Air Interstate Rule (CAIR).

**FINAL Permit No: 00100006-003-AV, Section III., Subsection C., Emissions Unit
No. 006; Permit Condition Nos. C.0. through C.20.**

ATTACHMENT G
COMPLIANCE REPORT

ATTACHMENT G

**DEERHAVEN GENERATING STATION
COMPLIANCE REPORT**

Attachment F to this Title V operation permit renewal application identifies the requirements that are applicable to the emission units that comprise this Title V source.

A copy of the most recent Deerhaven Generating Station Annual Statement of Compliance—Title V Source is provided in this attachment.



February 27, 2009

Via email

Mr. Chris Kirts, P.E., Administrator
Northeast District Air Program
Florida Department of Environmental Protection
7825 Baymeadows Way, Suite B200
Jacksonville, Florida 32256-7590

Re: Gainesville Regional Utilities
Deerhaven Generating Station
Facility I.D. No. 0010006
Permit No. 0010006-003-AV
Statement of Compliance - Title V Source

Dear Mr. Kirts,

Attached for the above referenced facility is the Statement of Compliance - Title V Source for the calendar year 2008 as required by Title V Permit, Appendix TV-3, Condition 51. If you have any questions, please contact me by e-mail at embryrg@gru.com, or by phone at (352) 393-1299.

Sincerely,

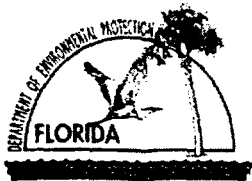
Regina Embry
Electric Utility Engineer

Attachment

cc electronically: John Gay, FDEP NED
Rosalyn Hughes, U. S. EPA - Region IV, Air and EPCRA Enforcement Branch
R. Klemans
D. Moffett
S. Holder
J. Stanton
J. Taylor

file: CAA/COMPCERT

X:\u0070\Reginal2008 Air\2008 Statement of Compliance and supporting doc's\2008 DH trans letter Title V Stat of Comp.doc



Department of Environmental Protection

Division of Air Resource Management

STATEMENT OF COMPLIANCE - TITLE V SOURCE

REASON FOR SUBMISSION (Check one to indicate why this statement of compliance is being submitted)

<input checked="" type="checkbox"/> Annual Requirement	<input type="checkbox"/> Transfer of Permit	<input type="checkbox"/> Permanent Facility Shutdown
--	---	--

REPORTING PERIOD*	REPORT DEADLINE**
January 1 st through December 31 st of 2008 (year)	February 28, 2009

*The statement of compliance must cover all conditions that were in effect during the indicated reporting period, including any conditions that were added, deleted, or changed through permit revision.

**See Rule 62-213.440(3)(a)2., F.A.C.

Facility Owner/Company Name: City of Gainesville, Gainesville Regional Utilities

Site Name: Deerhaven Generating Station Facility ID No. 0010006 County: Alachua

COMPLIANCE STATEMENT (Check only one of the following three options)

A. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, and there were no reportable incidents of deviations from applicable requirements associated with any malfunction or breakdown of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above.

B. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part; however, there were one or more reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each incident of deviation, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

C. This facility was in compliance with all terms and conditions of the Title V Air Operation Permit and, if applicable, the Acid Rain Part, EXCEPT those identified in the pages attached to this report and any reportable incidents of deviations from applicable requirements associated with malfunctions or breakdowns of process, fuel burning or emission control equipment, or monitoring systems during the reporting period identified above, which were reported to the Department. For each item of noncompliance, the following information is included:

1. Emissions unit identification number.
2. Specific permit condition number (note whether the permit condition has been added, deleted, or changed during certification period).
3. Description of the requirement of the permit condition.
4. Basis for the determination of noncompliance (for monitored parameters, indicate whether monitoring was continuous, i.e., recorded at least every 15 minutes, or intermittent).
5. Beginning and ending dates of periods of noncompliance.
6. Identification of the probable cause of noncompliance and description of corrective action or preventative measures implemented.
7. Dates of any reports previously submitted identifying this incident of noncompliance.

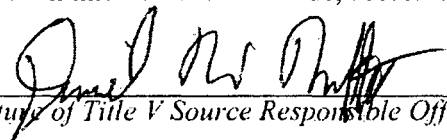
For each incident of deviation, as described in paragraph B. above, the following information is included:

1. Date of report previously submitted identifying the incident of deviation.
2. Description of the incident.

STATEMENT OF COMPLIANCE - TITLE V SOURCE

RESPONSIBLE OFFICIAL CERTIFICATION

I, the undersigned, am a responsible official (Title V air permit application or responsible official notification form on file with the Department) of the Title V source for which this document is being submitted. With respect to all matters other than Acid Rain program requirements, I hereby certify, based on the information and belief formed after reasonable inquiry, that the statements made and data contained in this document are true, accurate, and complete.



(Signature of Title V Source Responsible Official)

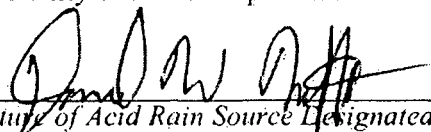
2/25/09
(Date)

Name: Daniel W. Moffett

Title: Plant Manager, Deerhaven Generating Station

DESIGNATED REPRESENTATIVE CERTIFICATION (only applicable to Acid Rain source)

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



(Signature of Acid Rain Source Designated Representative)

2/25/09
(Date)

Name: Daniel W. Moffett

Title: Plant Manager, Deerhaven Generating Station

{Note: Attachments, if required, are created by a responsible official or designated representative, as appropriate, and should consist of the information specified and any supporting records. Additional information may also be attached by a responsible official or designated representative when elaboration is required for clarity. This report is to be submitted to both the compliance authority (DEP district or local air program) and the U.S. Environmental Protection Agency(EPA) (U.S. EPA Region 4, Air and EPCRA Enforcement Branch, 61 Forsyth Street, Atlanta GA 30303).}

**Deerhaven Generating Station
Title V Permit 0010006-003-AV**

**Annual Compliance Certification
January 1, 2008 - December 31, 2008**

Incidents of Deviation

Emission Unit ID. No.	003 (Steam Unit #1)
Permit Condition No.	Specific Condition A.33.
Description of Permit Condition	This condition requires that visible emissions shall be monitored by the use of a CEMS.
Description of Incidents	Opacity monitoring not performed due to Emissions Monitoring Systems Problems, DAHS reboot 1 six-minute average period.
Date(s) of Previous Report of Incident	October 27, 2008 - Quarterly Excess Emission Report

Emission Unit ID. No.	005 (Steam Unit #2)
Permit Condition No.	Specific Condition B.4.(a)(2)
Description of Permit Condition	This condition requires that any gases which are discharged do not exhibit greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.
Description of Incidents	Excess emissions of opacity caused by ESP malfunction; 1 six-minute average period.
Date(s) of Previous Report of Incident	July 29, 2008 - Quarterly Excess Emission Report

Emission Unit ID. No.	005 (Steam Unit #2)
Permit Condition No.	Specific Condition B.4.(a)(2)
Description of Permit Condition	This condition requires that any gases which are discharged do not exhibit greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.
Description of Incidents	Excess emissions of opacity caused by ESP malfunction; 2 six-minute average periods.
Date(s) of Previous Report of Incident	October 27, 2008 - Quarterly Excess Emission Report

Emission Unit ID. No.	005 (Steam Unit #2)
Permit Condition No.	Specific Condition B.4.(a)(2)
Description of Permit Condition	This condition requires that any gases which are discharged do not exhibit greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.
Description of Incidents	Excess emissions of opacity caused by pulverizer trip; 4 six-minute average periods.
Date(s) of Previous Report of Incident	October 27, 2008 - Quarterly Excess Emission Report

Deerhaven Generating Station
Title V Permit 0010006-003-AV

Annual Compliance Certification
January 1, 2008 - December 31, 2008

Non-Compliances Page 1

Emissions unit identification number	005 (Steam Unit #2)
Permit condition number	Specific Condition D.2
Description of requirement of permit condition	Excess emissions resulting from startup, shutdown, fuel switching, or malfunction shall be permitted but in no case exceed two hours in any 24-hour period, unless authorized by the Department.
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	March 4, 2008; 90 minutes over the 2 hours allowed by permit
Probable cause of noncompliance	Startup after tube leak repair
Corrective Action/Preventative Measures	None
Dates of previous reports of noncompliance	E-mail to Rick Banks and John Gay, FDEP NED, on March 5, 2008.

Emissions unit identification number	005 (Steam Unit #2)
Permit condition number	Specific Condition D.2
Description of requirement of permit condition	Excess emissions resulting from startup, shutdown, fuel switching, or malfunction shall be permitted but in no case exceed two hours in any 24-hour period, unless authorized by the Department.
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	August 6, 2008; 30 minutes over the 2 hours allowed by permit
Probable cause of noncompliance	Electrical issue which caused Unit to trip
Corrective Action/Preventative Measures	None
Dates of previous reports of noncompliance	E-mail to Rick Banks and John Gay, FDEP NED, on August 7, 2008.

Emissions unit identification number	005 (Steam Unit #2)
Permit condition number	Specific Condition D.2
Description of requirement of permit condition	Excess emissions resulting from startup, shutdown, fuel switching, or malfunction shall be permitted but in no case exceed two hours in any 24-hour period, unless authorized by the Department.
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	August 22, 2008; 168 minutes over the 2 hours allowed by permit
Probable cause of noncompliance	Falling tree downed 3 miles of transmission lines during Tropical Storm Fay
Corrective Action/Preventative Measures	None
Dates of previous reports of noncompliance	E-mail to Rick Banks and John Gay, FDEP NED, on August 22, 2008, voicemail to John Gay, and email update August 26, 2008.

Emissions unit identification number	005 (Steam Unit #2)
Permit condition number	Specific Condition D.2
Description of requirement of permit condition	Excess emissions resulting from startup, shutdown, fuel switching, or malfunction shall be permitted but in no case exceed two hours in any 24-hour period, unless authorized by the Department.
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	October 9, 2008; 6 minutes over the 2 hours allowed by permit
Probable cause of noncompliance	Intense rain events
Corrective Action/Preventative Measures	None
Dates of previous reports of noncompliance	E-mail to John Gay, FDEP NED, on October 10, 2008

Emissions unit identification number	006 (Combustion Turbine #3)
Permit condition number	Specific Condition C.13.a and Appendix TV-4, Title V Conditions 9. and 10.
Description of requirement of permit condition	Excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the BACT standards (15/42 gas/oil) and shall be reported as excess emissions. The permittee shall immediately notify the Department
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	March 9, 2008; 4 hours of rolling averages above 15 ppmvd NOx over the 2 allowed
Probable cause of noncompliance	Unit tripped due to compressor differential problem; Unit also dropped out of pre-mix for unknown reason. Untimely reporting due to problem with programming that performs the computation of the hourly averages.
Corrective Action/Preventative Measures	Turbine specialist brought in to troubleshoot; also, investigation by CEMs vendor that revealed programming error.
Dates of previous reports of noncompliance	March 10, 2008; emails to Rick banks and John Gay for 2 hours over; Additional 2 hours reported June 26, 2008, upon discovery.

Emissions unit identification number	006 (Combustion Turbine #3)
Permit condition number	Specific Condition C.13.a and Appendix TV-4, Title V Conditions 9. and 10.
Description of requirement of permit condition	Excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the BACT standards (15/42 gas/oil) and shall be reported as excess emissions The permittee shall immediately notify the Department
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	June 6, 2008; 3 hours of rolling averages above 15 ppmvd NOx over the 2 allowed
Probable cause of noncompliance	Malfunction of combustion controls; also problem with programming that performs the computation of the hourly averages.
Corrective Action/Preventative Measures	Investigation by CEMs vendor that revealed programming error
Dates of previous reports of noncompliance	June 26, 2008; email to Rick banks and John Gay

Emissions unit identification number	006 (Combustion Turbine #3)
Permit condition number	Specific Condition C.13.a and Appendix TV-4, Title V Conditions 9. and 10.
Description of requirement of permit condition	Excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the BACT standards (15/42 gas/oil) and shall be reported as excess emissions The permittee shall immediately notify the Department
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	January 19, 2006; 2 hours of rolling averages above 15 ppmvd NOx over the 2 allowed
Probable cause of noncompliance	Unit did not go into premix; reporting delay due to programming error for NOx computation
Corrective Action/Preventative Measures	Investigation by CEMs vendor that revealed programming error
Dates of previous reports of noncompliance	June 30, 2008; emails to Rick banks and John Gay

Emissions unit identification number	006 (Combustion Turbine #3)
Permit condition number	Specific Condition C.13.a and Appendix TV-4, Title V Conditions 9. and 10.
Description of requirement of permit condition	Excess emissions shall be any unit operating hour in which the 4-hour rolling average NOx concentration exceeds the BACT standards (15/42 gas/oil) and shall be reported as excess emissions The permittee shall immediately notify the Department
Basis for determination of noncompliance	Continuous monitoring
Beginning and ending dates of noncompliance	September 21, 2006; 1 hour of rolling averages above 15 ppmvd NOx over the 2 allowed
Probable cause of noncompliance	Unit went into lean-lean mode on previous day Reporting delay due to programming error for NOx computation
Corrective Action/Preventative Measures	Investigation by CEMs vendor that revealed programming error
Dates of previous reports of noncompliance	June 30, 2008; emails to Rick banks and John Gay

ATTACHMENT H
LIST OF EQUIPMENT REGULATED
UNDER TITLE VI

ATTACHMENT H

**DEERHAVEN GENERATING STATION
LIST OF EQUIPMENT REGULATED UNDER TITLE VI**

Unit ID	Manufacturer	Model No.	Serial No.	Location	Refrigerant Type	Charge Amount (lb)
Cond 102	Carrier	30GT050600KA	21943F1773	Process Plant	R-22	60

H-1

ATTACHMENT I
ACID RAIN PART

Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72.30, 72.31, and 74; and Chapter 62-214, F.A.C.

This submission is: New Revised Renewal

STEP 1

Identify the source by plant name, state, and ORIS or plant code.

Deerhaven Plant name	Florida State	0663 ORIS/Plant Code
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STEP 2

Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO₂ Opt-in unit, enter "yes" in column "b".

For new units or SO₂ Opt-in units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO ₂ Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO ₂ Opt-in Units Commence Operation Date	New or SO ₂ Opt-in Units Monitor Certification Deadline
B1	No	Yes	N/A	N/A
B2	No	Yes	N/A	N/A
CT3	No	Yes	N/A	N/A
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

Deerhaven

Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

Acid Rain Part Requirements.

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Submit a complete Acid Rain Part application (including a compliance plan) under 40 CFR Part 72 and 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 DEP determines is necessary in order to review an Acid Rain Part application and issue or deny an Acid Rain Part;
- (2) The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
 - (i) Operate the unit in compliance with a complete Acid Rain Part application or a superseding Acid Rain Part issued by the DEP; and
 - (ii) Have an Acid Rain Part.

Monitoring Requirements.

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
- (3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
- (4) For applications including a SO₂ Opt-in unit, a monitoring plan for each SO₂ Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO₂ Opt-in units include an updated monitoring plan if applicable under 40 CFR 75.53(b).

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)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), 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) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain Part application, the Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
- (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the DEP:
 - (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, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Deerhaven

Plant Name (from STEP 1)

**STEP 3,
Continued.**

Recordkeeping and Reporting Requirements (cont)

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

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

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.

(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.

(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.

(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.

(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.

(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.

(7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain Part application, an Acid Rain Part, or an 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.

**STEP 4
For SO₂ Opt-in
units only.**

**In column "f" enter
the unit ID# for
every SO₂ Opt-in
unit identified in
column "a" of
STEP 2.**

**For column "g"
describe the
combustion unit
and attach
information and
diagrams on the
combustion unit's
configuration.**

**In column "h"
enter the hours.**

f	g	h (not required for renewal application)
Unit ID#	Description of the combustion unit	Number of hours unit operated in the six months preceding initial application

Deerhaven
Plant Name (from STEP 1)

STEP 5

For SO₂ Opt-in units only.
(Not required for SO₂ Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO₂ Opt-in unit identified in column "a" (and in column "f").

For columns "j" through "n," enter the information required under 40 CFR 74.20-74.25 and attach all supporting documentation required by 40 CFR 74.20-74.25.

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO ₂ Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO ₂ Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO ₂ Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO ₂ Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)

STEP 6

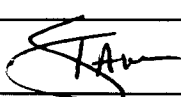
For SO₂ Opt-in units only.

Attach additional requirements, certify and sign.

- A. If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
- B. A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
- C. A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
- D. Attach a complete compliance plan for SO₂ under 40 CFR 72.40.
- E. The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.61. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
- F. The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

STEP 7

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

Signature		Date	
Certification (for designated representative or alternate designated representative only)			
I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.			
John W. Stanton Name		Assistant General Manager - Energy Supply Title	
City of Gainesville, Gainesville Regional Utilities Owner Company Name			
(352) 393-1789 Phone		stantonjw@gru.com E-mail address	
Signature 		Date 5-13-09	

ATTACHMENT J

CAIR PART

Deerhaven

Plant Name (from STEP 1)

STEP 3

Read the standard requirements.

CAIR NO_x ANNUAL TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR NO_x source and each CAIR NO_x unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.122 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CC, and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x source and each CAIR NO_x unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HH, shall be used to determine compliance by each CAIR NO_x source with the following CAIR NO_x Emissions Requirements.

NO_x Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x source and each CAIR NO_x unit at the source shall hold, in the source's compliance account, CAIR NO_x allowances available for compliance deductions for the control period under 40 CFR 96.154(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x units at the source, as determined in accordance with 40 CFR Part 96, Subpart HH.
- (2) A CAIR NO_x unit shall be subject to the requirements under paragraph (1) of the NO_x Requirements starting on the later of January 1, 2009, or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.170(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR NO_x allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Requirements, for a control period in a calendar year before the year for which the CAIR NO_x allowance was allocated.
- (4) CAIR NO_x allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO_x allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Annual Trading Program. No provision of the CAIR NO_x Annual Trading Program, the CAIR Part, or an exemption under 40 CFR 96.105 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR NO_x allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EE, FF, or GG, every allocation, transfer, or deduction of a CAIR NO_x allowance to or from a CAIR NO_x unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x unit.

Excess Emissions Requirements.

If a CAIR NO_x source emits NO_x during any control period in excess of the CAIR NO_x emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x unit at the source shall surrender the CAIR NO_x allowances required for deduction under 40 CFR 96.154(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO_x source and each CAIR NO_x 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 before the end of 5 years, in writing by the DEP or the Administrator.
 - (i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO_x unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.113 changing the CAIR designated representative.
 - (ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
 - (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Annual Trading Program.
 - (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Annual Trading Program.
- (2) The CAIR designated representative of a CAIR NO_x source and each CAIR NO_x unit at the source shall submit the reports required under the CAIR NO_x Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

Deerhaven

Plant Name (from STEP 1)

**STEP 3,
Continued**

Liability.

- (1) Each CAIR NO_x source and each CAIR NO_x unit shall meet the requirements of the CAIR NO_x Annual Trading Program.
- (2) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x source or the CAIR designated representative of a CAIR NO_x source shall also apply to the owners and operators of such source and of the CAIR NO_x units at the source.
- (3) Any provision of the CAIR NO_x Annual Trading Program that applies to a CAIR NO_x unit or the CAIR designated representative of a CAIR NO_x unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR NO_x Annual Trading Program, a CAIR Part, or an exemption under 40 CFR 96.105 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x source or CAIR NO_x unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR SO₂ TRADING PROGRAM

CAIR Part Requirements.

- (1) The CAIR designated representative of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall:
 - (i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
 - (ii) [Reserved];
- (2) The owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR SO₂ source and each SO₂ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-296.470, F.A.C.
- (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO₂ source with the following CAIR SO₂ Emission Requirements.

SO₂ Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO₂ source and each CAIR SO₂ unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO₂ allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO₂ units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
- (2) A CAIR SO₂ unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
- (3) A CAIR SO₂ allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO₂ Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO₂ allowance was allocated.
- (4) CAIR SO₂ allowances shall be held in, deducted from, or transferred into or among CAIR SO₂ Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO₂ allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO₂ Trading Program. No provision of the CAIR SO₂ Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
- (6) A CAIR SO₂ allowance does not constitute a property right.
- (7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO₂ allowance to or from a CAIR SO₂ unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO₂ unit.

Excess Emissions Requirements.

If a CAIR SO₂ source emits SO₂ during any control period in excess of the CAIR SO₂ emissions limitation, then:

- (1) The owners and operators of the source and each CAIR SO₂ unit at the source shall surrender the CAIR SO₂ allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

Deerhaven

Plant Name (from STEP 1)

**STEP 3,
Continued**

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO₂ source and each CAIR SO₂ 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 before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO₂ unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.213 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO₂ Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to demonstrate compliance with the requirements of the CAIR SO₂ Trading Program.

(2) The CAIR designated representative of a CAIR SO₂ source and each CAIR SO₂ unit at the source shall submit the reports required under the CAIR SO₂ Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

(1) Each CAIR SO₂ source and each CAIR SO₂ unit shall meet the requirements of the CAIR SO₂ Trading Program.

(2) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ source or the CAIR designated representative of a CAIR SO₂ source shall also apply to the owners and operators of such source and of the CAIR SO₂ units at the source.

(3) Any provision of the CAIR SO₂ Trading Program that applies to a CAIR SO₂ unit or the CAIR designated representative of a CAIR SO₂ unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO₂ Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO₂ source or CAIR SO₂ unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall:

(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.322 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and

(ii) [Reserved];

(2) The owners and operators of each CAIR NO_x Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO_x Ozone Season unit required to have a Title V operating permit or air construction permit at the source shall have a CAIR Part included in the Title V operating permit or air construction permit issued by the DEP under 40 CFR Part 96, Subpart CCCC, for the source and operate the source and the unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHHH, and Rule 62-296.470, F.A.C.

(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO_x Ozone Season source with the following CAIR NO_x Ozone Season Emissions Requirements.

NO_x Ozone Season Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NO_x Ozone Season allowances available for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO_x emissions for the control period from all CAIR NO_x Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.

(2) A CAIR NO_x Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.

(3) A CAIR NO_x Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO_x Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO_x Ozone Season allowance was allocated.

(4) CAIR NO_x Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO_x Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.

(5) A CAIR NO_x Ozone Season allowance is a limited authorization to emit one ton of NO_x in accordance with the CAIR NO_x Ozone Season Trading Program. No provision of the CAIR NO_x Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.

(6) A CAIR NO_x Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO_x Ozone Season allowance to or from a CAIR NO_x Ozone Season unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR NO_x Ozone Season unit.

Deerhaven

Plant Name (from STEP 1)

**STEP 3,
Continued**

Excess Emissions Requirements.

If a CAIR NO_x Ozone Season source emits NO_x during any control period in excess of the CAIR NO_x Ozone Season emissions limitation, then:

- (1) The owners and operators of the source and each CAIR NO_x Ozone Season unit at the source shall surrender the CAIR NO_x Ozone Season allowances required for deduction under 40 CFR 96.354(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
- (2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAAA, the Clean Air Act, and applicable state law.

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season 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 before the end of 5 years, in writing by the DEP or the Administrator.

(i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_x Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; 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 under 40 CFR 96.113 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_x Ozone Season Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_x Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO_x Ozone Season Trading Program.

(2) The CAIR designated representative of a CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit at the source shall submit the reports required under the CAIR NO_x Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

(1) Each CAIR NO_x Ozone Season source and each CAIR NO_x Ozone Season unit shall meet the requirements of the CAIR NO_x Ozone Season Trading Program.

(2) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season source or the CAIR designated representative of a CAIR NO_x Ozone Season source shall also apply to the owners and operators of such source and of the CAIR NO_x Ozone Season units at the source.

(3) Any provision of the CAIR NO_x Ozone Season Trading Program that applies to a CAIR NO_x Ozone Season unit or the CAIR designated representative of a CAIR NO_x Ozone Season unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

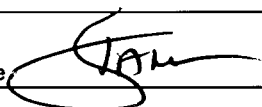
No provision of the CAIR NO_x Ozone Season Trading Program, a CAIR Part, or an exemption under 40 CFR 96.305 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR NO_x Ozone Season source or CAIR NO_x Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

STEP 4

Certification (for designated representative or alternate designated representative only)

Read the certification statement; provide name, title, owner company name, phone, and e-mail address; sign, and date.

I am authorized to make this submission on behalf of the owners and operators of the CAIR source or CAIR 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.

John W. Stanton Name		Assistant General Manager - Energy Supply Title	
City of Gainesville, Gainesville Regional Utilities Owner Company Name			
393-1789	(352) Phone	stantonjw@gru.com E-mail address	
Signature 		Date 5-13-09	

ATTACHMENT K
FUEL SPECIFICATIONS

ATTACHMENT K

DEERHAVEN GENERATING STATION FUEL ANALYSES OR SPECIFICATIONS

A. Natural Gas (typical composition)

Component	Mole Percent (by volume)
<u>Gas Composition</u>	
Hexane+	0.018
Propane	0.190
I-butane	0.010
N-butane	0.007
Pentane	0.002
Nitrogen	0.527
Methane	96.195
CO ₂	0.673
Ethane	2.379
<u>Other Characteristics</u>	
Heat content (HHV)	1,050 Btu/ft ³ at 14.73 psia, dry
Real specific gravity	0.5776
Sulfur content	0.5 gr/100 scf

Note: Btu/ft³ = British thermal units per cubic foot.
 psia = pounds per square inch absolute.
 gr/100 scf = grains per 100 standard cubic foot.

B. Distillate Fuel Oils

Specification	Units	Value
Heat Content (nominal)	Btu/gal (HHV)	138,000
Sulfur Content	Weight %	0.05 – 2.5
Ash Content	Weight %	0.1

ATTACHMENT K

DEERHAVEN GENERATING STATION FUEL ANALYSES OR SPECIFICATIONS

C. Residual Fuel Oils

Specification	Units	Value
Heat Content (nominal)	Btu/gal (HHV)	150,000
Sulfur Content	Weight %	2.5
Ash Content	Weight %	0.1

D. On-Specification Used Oil

Meets specifications of 40 CFR 279.11

E. Coal

Specification	Units	Value
Heat Content (nominal)	Btu/lb (HHV)	13,000
Sulfur Content	lb/10 ⁶ Btu	2.5
Ash Content	Weight %	10.0
Moisture Content	Weight %	10.0

ATTACHMENT L

**DETAILED DESCRIPTION
OF CONTROL EQUIPMENT**

ATTACHMENT L

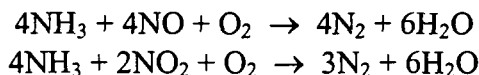
DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT

A. Unit 2 (EU 005) Hot-Side Electrostatic Precipitator - Existing

Manufacturer:	Research-Cottrell
Model No.:	UP-6024
Control Efficiency (%):	99.5
Pressure Drop (in H ₂ O), operating:	7
Temperature, operating (EF):	650 - 760
Temperature, design (EF):	800
Inlet Air Flow Rate (acfm):	1,346,000
Collection Plate Area (ft ²):	621,837
Plate Cleaning Procedures:	Rappers.

B. Unit 2 (EU 005) Selective Catalytic Reduction (SCR) – Under Construction

The selective catalytic reduction (SCR) NO_x removal process functions by reacting NO_x contained in the flue gas with ammonia in the presence of a catalyst at a temperature between 613 and 800 degrees Fahrenheit (°F) to produce nitrogen (N₂) and water (H₂O). NH₃ is injected upstream of the catalyst bed where the following primary reactions take place:



The DGS Unit 2 SCR system will tie into the ductwork at the outlet of the existing hot-side electrostatic precipitator which will remain in-service after installation of the Unit 2 Air Quality Control System (AQCS). Ammonia mixer plates and patented Delta Wing™ mixers will be located within the inlet duct to the two SCR reactors. The SCR outlet duct will connect to the existing air heaters.

The SCR system is designed so that flue gas flows through it whenever the DGS Unit 2 is operating i.e., there are no bypasses. The SCR system contains instrumentation to measure flue gas pressures, temperatures and NO_x concentrations at various locations in the ductwork and reactors. NO_x control is initiated when the temperature at the outlet of the reactor reaches the minimum short-term operating temperature specified by the catalyst vendor and ammonia flow is started through the injection nozzles.

The DGS Unit 2 flue gas will flow through the three layers (two active and one future layer) of honeycomb catalyst. This SCR design provides sufficient space with margin to accommodate plate or honeycomb type catalyst and meet the performance requirements

ATTACHMENT L

DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT

without using the spare catalyst level. The catalyst handling system will consist of a catalyst-rotating device, catalyst module lift device (supplied by the catalyst vendor), electric and manual hoists, and a catalyst cart and rail system. Provisions have been made in the catalyst design for removable test samples of catalyst material that can be used to monitor and predict catalyst activity during the catalyst life. The design life of the catalyst is 24,000 hours.

Gaseous arsenic is one of the predominant catalyst deactivation mechanisms in coal-fired SCR applications. Introducing calcium oxide (CaO) to the fuel reduces the gaseous arsenic in the flue gas and decreases its harmful effect on the catalyst. For the DGS Unit 2 SCR system, an addition rate of 0.51 weight percent CaO is expected to reduce the concentration of arsenic in the flue gas to within acceptable limits, subsequently ensuring the catalyst for a minimum 24,000 hours of operation. This optional CaO addition may be provided from lime or limestone.

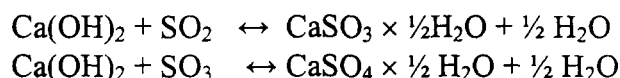
A urea-based ammonia system will be provided to supply ammonia for the SCR catalyst to remove NO_x. The system is sized to produce ammonia for two SCRs at full load. The urea to ammonia (U2A) system will use urea that is dissolved into water and the solution will be injected into heated in-line hydrolysers at a controlled rate and under conditions to provide the required amount of ammonia. The process will produce a gaseous mixture of ammonia, carbon dioxide and water vapor, which will be mixed into the flue gas stream.

The DGS Unit 2 SCR control system is designed to achieve a target outlet NO_x emission rate of 0.07 pounds per million British thermal units (lb/10⁶ Btu) with an ammonia slip concentration of no more than 5.0 parts per million at 3% O₂.

C. Unit 2 (EU 005) Circulating Dry SO₂ Scrubber – Under Construction

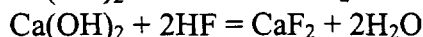
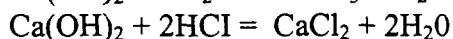
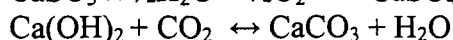
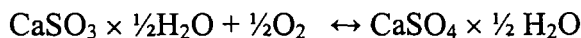
A Circulating Dry Scrubber (CDS) will be installed down stream of the existing DGS Unit 2 induced draft (ID) fans. This flue gas desulfurization (FGD) system will remove the acidic constituents of the flue gas, primarily SO₂ and SO₃ and to a lesser extent CO₂, HCl and HF, by reaction with hydrated lime. The system includes the CDS vessel, adsorbent preparation and injection, water injection, product recycle injection and a flue gas recycle system. To assure a high level of SO₂ removal, a portion of the solid products exiting the CDS vessel (i.e., primarily reaction products such as CaSO₃, CaSO₄, CaCO₃, CaCl₂ and CaF₂ and inerts) will be separated from the flue gas in the baghouse and recycled to the vessel inlet at a high ratio to the inlet solids.

The dominant CDS equations are as follows:



ATTACHMENT L

DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT



The CDS is designed so that flue gas flows through it whenever the DGS Unit 2 is operating (i.e., there are no bypasses). It contains instrumentation to measure flue gas pressures, temperatures and SO₂ concentrations at various locations in the ductwork.

The DGS Unit 2 flue gas will first pass through a group of venturi nozzles. The venturi nozzles serve to accelerate the flue gas just prior to the injection of high-pressure water, recycled solids, and adsorbent (i.e., lime). The reactor acts as a fluidized bed, assuring maximum contact between the pollutants in the flue gas and the adsorbent solids. The reactor is characterized by high turbulences and optimal chemical and physical heat and mass transfer rates. Water is added to bring the flue gas closer to the saturation temperature where the SO₂ absorption is most effective. The high dust load leaving the reactor is captured in the baghouse (fabric filter).

Hydrated lime, Ca(OH)₂, is the adsorbent used in the CDS process. Lime (CaO) will be delivered to the DGS via truck or rail and subsequently hydrated to increase its reactivity before injection in the CDS. Within the hydrator, the lime is mixed with water and agitated until the hydration reaction is complete. The quantity of fresh lime that is introduced into the CDS is controlled by inlet and outlet SO₂ concentrations.

A portion of the material captured in the baghouse will be recycled back into the CDS to maintain the fluidized bed, while the excess material will be pneumatically transported out of the system to a storage silo. The amount of solids recycled is dependent upon the differential pressure within the CDS and the volumetric flue gas flow rate.

In order to ensure that the CDS is constantly fluidized, a portion of the flue gas stream downstream of the two booster fans will be recirculated to the inlet duct of the CDS during boiler operation at reduced loads. The amount of flue gas recirculated is accomplished through the positions of the two recirculation dampers.

The DGS Unit 2 CDS control system is designed to achieve a target outlet SO₂ emission rate of 0.12 lb/10⁶ Btu.

D. Unit 2 (EU 005) Fabric Filter – Under Construction

For particulate removal, one pulse-jet baghouse containing ten (10) compartments will be installed between the outlet of the CDS and inlet of the booster fans at DGS Unit 2. The

ATTACHMENT L

DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT

fabric filter is designed so that flue gas flows through it whenever the DGS Unit 2 is operating; i.e., there are no bypasses.

Particulate contained in the raw flue gas as well as reaction products from the CDS are captured in the pulsejet fabric filter. The pulsejet fabric filter is multi-compartmented, consisting of two parallel trains with centrally located inlet and outlet plenums. Each parallel train of compartments is served by an air slide utilizing heated air. The air slide conveys a significant portion of the collected particulate back to the CDS to maintain a high solids environment and improve overall reagent utilization. The balance of the collected particulate goes to surge bins (one per air slide) from which it is pneumatically conveyed to a common ash silo equipped with redundant pug mills. The ash can then be loaded into trucks.

Each compartment will contain one cylindrical bag bundle with 984 filter bags per bundle. This equates to a total of 9,840 bags installed, with an additional 2 percent included as startup spares. The filter bags for this project will be fabricated from heavy weight 18 oz/yd nominal weight PPS, self supported with fused seam. The design air-to-cloth ratio is 4:1 or less with one compartment off-line for maintenance.

The pulsejet fabric filter utilizes bags fabricated from felted polyphenyl sulfide fabric that is appropriate for this application. During operation the incoming particulate laden flue gas passes from outside of each bag creating a filter cake. With the passage of time, this cake thickens and tends to increase pressure drop. An automatic cleaning system is utilized to dislodge this filter cake, thus maintaining the desired overall pressure drop. The motive force for cleaning is pressurized air that is introduced at the top of the bags, just above the tubesheet. This flow of pressurized air travels counter to the normal flow of flue gas, thus dislodging the accumulated filter cake and assisting its downward drop into the collecting hoppers below. Redundant low-pressure positive displacement blowers provide the pressurized air.

Two 50 percent booster fans are provided for the DGS Unit 2 AQCS. The fans serve two functions. They provide the additional motive force to overcome the additional pressure drop imposed on the system by the addition of the SCR's, the CDS, and the baghouse. They also allow the CDS to operate at reduced Unit 2 loads by recycling a portion of flue gas from the baghouse outlet to the CDS vessel inlet, thereby keeping the solids bed in the vessel fluidized. The discharge of the booster fans ties into the ductwork upstream of the stack.

The DGS Unit 2 fabric filter control system is designed to achieve a target outlet filterable PM emission rate of 0.015 lb/10⁶ Btu.

ATTACHMENT L

DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT

E. Combustion Turbine No. 3 (EU 006) NO_x Controls

When firing natural gas, Combustion Turbine No. 3 utilizes dry low-NO_x (DLN) combustors that premix turbine fuel and air prior to combustion in the primary zone. Use of a premix burner results in a homogeneous air/fuel mixture without an identifiable flame front. For this reason, the peak and average flame temperatures are the same, causing a decrease in thermal NO_x emissions in comparison to a conventional diffusion burner. A typical DLN combustor incorporates fuel staging using several operating modes as follows:

- Primary Mode—Fuel supplied to first stage only at turbine loads from 0 to 35 percent. Combustor burns with a diffusion flame with quiet, stable operation. This mode is used for ignition, warm-up, acceleration, and low-load operation.
- Lean-Lean Mode—Fuel supplied to both stages with flame in both stages at turbine loads from 35 to 50 percent. Most of the secondary fuel is premixed with air. Turbine loading continues with a flame present in both fuel stages. As load is increased, CO emissions will decrease, and NO_x levels will increase. Lean-lean operation will be maintained with increasing turbine load until a preset combustor fuel-to-air ratio is reached when transfer to premix operation occurs.
- Secondary Mode (Transfer to Premix)—At 70-percent load, all fuel is supplied to second stage.
- Premix Mode—Fuel is provided to both stages with approximately 80 percent furnished to the first stage at turbine loads from 70 to 100 percent. Flame is present in the second stage only.

In addition to lean premixed combustion, DLN combustors typically incorporate lean combustion and reduced combustor residence time to reduce the rate of NO_x formation. All CTs cool the high-temperature CT exhaust gas stream with dilution air to lower the exhaust gas to an acceptable temperature prior to entering the CT turbine. By adding additional dilution air, the hot CT exhaust gases are rapidly cooled to temperatures below those needed for NO_x formation. Reduced residence time combustors add the dilution air sooner than do standard combustors. The amount of thermal NO_x is reduced because the CT combustion gases are at a higher temperature for a shorter period of time.

When firing distillate fuel oils, Combustion Turbine No. 3 utilizes water injection to reduce NO_x formation. Injection of water into the CT's primary combustion zone reduces the formation of thermal NO_x by decreasing the peak combustion temperature. Water injection decreases the peak flame temperature by diluting the combustion gas stream and acting as a heat sink by absorbing heat necessary to: (a) vaporize the water (latent heat of vaporization), and (b) raise the vaporized water temperature to the combustion

ATTACHMENT L

DEERHAVEN GENERATING STATION DETAILED DESCRIPTION OF CONTROL EQUIPMENT

temperature. High purity water must be employed to prevent turbine corrosion and deposition of solids on the turbine blades. Typical injection rates range from 0.3 to 1.0 pounds of water per pound of fuel. Water injection will not reduce the formation of fuel NO_x .

The maximum amount of water that can be injected depends on the CT combustor design. Excessive rates of injection will cause flame instability, combustor dynamic pressure oscillations, thermal stress (cold-spots), and increased emissions of CO and VOCs due to combustion inefficiency. Accordingly, the efficiency of water injection to reduce NO_x emissions also depends on turbine combustor design. For a given turbine design, the maximum water-to-fuel ratio (and maximum NO_x reduction) will occur up to the point where cold-spots and flame instability adversely affect safe, efficient, and reliable operation of the turbine.

Both DLN combustion (when firing natural gas) and water injection (when firing distillate fuel oil) are considered *pollution prevention* technologies; i.e., both technologies do not remove nor destroy NO_x but rather reduce its formation.

ATTACHMENT M

**PROCEDURES FOR
STARTUP AND SHUTDOWN**

ATTACHMENT M

DEERHAVEN GENERATING STATION PROCEDURES FOR STARTUP AND SHUTDOWN

A. Unit 1 (EU 003) and Unit 2 (EU 005)

Startup Procedures

- 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.

Shutdown Procedures

- 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.

ATTACHMENT M

DEERHAVEN GENERATING STATION PROCEDURES FOR STARTUP AND SHUTDOWN

B. Combustion Turbine No. 3 (EU 006)

Startup Procedures

- Operator checks all alarms from the Alarm *Display* screen of the Primary Operator Interface Panel of the Mark V Turbine Control System and performs a master reset if required.
- Operator selects GAS or LIQUID fuel operation and AUTO synchronization from the Main Display of the Interface Panel.
- Operator initiates a start from the Interface Panel by selecting START and EXECUTE.
- Turbine electric cranking motor engages and turns the combustion turbine rotor to a speed of approximately 360 RPM at which time the combustors are ignited.
- The natural gas or liquid fuel systems deliver a proper amount of fuel to the combustion turbine and in combination with the cranking motor the turbine accelerates to a speed of approximately 2400 RPM at which time the cranking motor disengages.
- The fuel system accelerates the turbine to a synchronous speed of 3600 RPM. The generator field is obtained and the generator synchronizes with the power grid.
- Operator selects the load at which the generator is to operate and the power output of the generator automatically increases at a rate of 3 MW/min. until it reaches the required load.
- When the turbine firing temperature reaches the proper level the WATER INJECTION system engages while firing liquid fuel or the DRY LOW NO_x system engages while firing natural gas to control NO_x emissions.

Shutdown Procedures

- Operator selects STOP and EXECUTE from the Main Display of the Interface Panel on the Mark V Control System.
- The generator output decreases to zero at a rate of approximately 3 MW/min. at which time the generator breaker opens and disconnects the generator from the grid.
- The combustion turbine coasts down to a speed of 0 RPM at which time the ratcheting feature engages to keep the turbine rotor turning while the unit cools down.

ATTACHMENT N
COMPLIANCE ASSURANCE MONITORING

ATTACHMENT N

DEERHAVEN GENERATING STATION COMPLIANCE ASSURANCE MONITORING

In order to be subject to the CAM Rule contained in 40 Code of Federal Regulations (CFR) Part 64, an emission unit must:

1. Be located at a major source that is required to obtain Part 70 or 71 permit per 40 CFR §64.2(a).
2. Be subject to an emission limitation or standard for the applicable pollutant per 40 CFR §64.2(a)(1).
3. Use a control device to achieve compliance per 40 CFR §64.2(a)(2).
4. Have potential pre-control emissions of the applicable regulated pollutant at least 100 percent of the major source threshold amount per 40 CFR §64.2(a)(3).
5. Not otherwise be exempt from CAM per 40 CFR §64.2(b).

A discussion of CAM applicability for the Deerhaven Generating Station regulated emissions units follows:

A. Unit 1 (EU 003)

Unit 1 is a steam generating boiler that is fired with natural gas and fuel (distillate and residual) oils. Unit 1 does not employ any *control devices* as defined 40 CFR §64.1. Accordingly, Unit 1 is not subject to the requirements of 40 CFR Part 64.

B. Unit 2 (EU 005)

Unit 2 is a steam generating boiler that that is fired with coal, natural gas, and distillate fuel oils. Unit 2 is subject to the applicable PM, SO₂, and NO_x emission standards of NSPS Subpart D.

Unit 2 is currently equipped with a hot-side electrostatic precipitator (ESP) to control particulate matter (PM) emissions. In response to the Clean Air Interstate Rule (CAIR), additional emission controls (i.e., Selective Catalytic Reduction [SCR] for NO_x control, Circulating Dry Scrubber [CDS] for SO₂ control, and Fabric Filter [FF] for PM control) are presently being installed on Unit 2.

Unit 2 is equipped with NO_x and SO₂ Continuous Emission Monitoring Systems (CEMS) pursuant to Acid Rain Program (ARP) monitoring requirements; i.e., in accordance with 40 CFR Part 75 monitoring requirements.

Unit 2 meets the above criteria for CAM applicability and is subject to the requirements of 40 CFR Part 64 with respect to PM only. In accordance with §64.2(b)(1)(vi), CAM is not

ATTACHMENT N

DEERHAVEN GENERATING STATION COMPLIANCE ASSURANCE MONITORING

applicable to the Unit 2 NSPS Subpart D SO₂ and NO_x emission standards since SO₂ and NO_x emissions are measured directly using CEMS; i.e., the Part 75 CEMS serve as a *continuous compliance determination method*.

C. Combustion Turbine No. 3 (EU 006)

Combustion Turbine No. 3 is a simple cycle combustion turbine (CT) fired with natural gas and distillate fuel oil. CT No. 3 employs dry low-NO_x (DLN) combustors to reduce the formation of NO_x when firing natural gas. During distillate fuel oil-firing, CT No. 3 uses water injection to reduce the formation of NO_x.

DLN combustors (used during natural gas-firing) is a combustion design feature and therefore specifically exempt from CAM requirements in accordance with the 40 CFR §64.1 definition of a control device.

Water injection (used during distillate fuel oil-firing) is a pollution prevention technique and a combustion design feature that reduces the formation of NO_x. This technology does not appear to meet the 40 CFR Part 64 definition of a control device since it neither destroys nor removes air pollutants prior to discharge to the atmosphere. Rather, it is a pollution prevention technique that reduces the formation of pollutants; i.e., nitrogen oxides (NO_x).

Wet injection is also considered a passive control measure since, following initial combustion turbine tuning by the vendor, there is no day-to-day intervention by the CT operator; i.e., the control measures operate passively via the CT's operational control instrumentation and software. Re-tuning of a CT is only necessary in the event of major CT component replacement.

Although GRU does not believe the CT No. 3 NO_x emission limits are subject to CAM as discussed above, CT No. 3 is subject to the ARP and is equipped with a NO_x/diluent CEMS. Accordingly, CAM is also not applicable to the CT No. 3 NO_x emission standards since NO_x emissions are measured directly using CEMS; i.e., the Part 75 CEMS serve as a *continuous compliance determination method*.

In summary, the 40 CFR Part 64 CAM requirements for the Deerhaven Generating Station are applicable to Unit 2 for PM emissions. A PM CAM Plan for Unit 2 follows this introduction.

ATTACHMENT N

DEERHAVEN GENERATING STATION COMPLIANCE ASSURANCE MONITORING

I. Background

A. Emissions Unit

Description: Steam Electric Generating Unit boiler fired with Coal and Natural Gas
Identification: Unit 2 - Emissions Unit ID 005
Facility: GRU - Deerhaven Generating Station
Facility ID No. 0010006

B. Applicable Emission Limit and Monitoring Requirements

Emission Limit: PM - 0.10 lb/MMBtu, three-hour average
Monitoring Requirement: Annual Compliance Test - Method 5

C. Control Technology

Electrostatic Precipitator (ESP)

II. Monitoring Approach

A. Indicator

Opacity will be used as an indicator.

B. Measurement Approach

Opacity will be measured in the stack with a Continuous Opacity Monitoring System (COMS).

C. Indicator Range

An excursion is defined as any one-hour average opacity greater than 18%, excluding periods of start-up, shutdown, or malfunction, pursuant to Rule 62-210.700, F.A.C. An excursion will trigger an evaluation of the operation of the boiler and ESP. Corrective action will be taken as necessary. Any excursion will trigger recordkeeping and reporting pursuant to the requirements of 40 CFR 64.9.

D. Performance Criteria

Data Representativeness: Opacity measurements are made in the stack.

ATTACHMENT N

DEERHAVEN GENERATING STATION COMPLIANCE ASSURANCE MONITORING

D. Performance Criteria (continued)

Verification of Operational
Status:

Not Applicable

QA/QC Practices
and Criteria:

The COMS is automatically calibrated every 24 hours. Calibration information is recorded through a data acquisition and handling system (DAHS). A neutral density filter test is performed quarterly, as well as preventative maintenance; replace filters, clean optics, etc., as prescribed by the manufacturer.

Monitoring Frequency:

Opacity is monitored continuously.

Data Collection
Procedure:

Six-minute averages are recorded by the DAHS. Daily reports with all six-minute averages are generated. One-hour averages are determined every six minutes from the average of the previous ten consecutive six-minute averages.

III. Justification

A. Background

This facility is a multi-unit electric power generating plant. The pollutant-specific emissions unit is Steam Unit #2 boiler which is fired with coal and natural gas. Particulate emissions are controlled by an electrostatic precipitator.

B. Rationale for Selection of Performance Indicator

Opacity was selected as the performance indicator because it is indicative of the operation of the ESP in a manner necessary to comply with the particulate emissions standard. When the boiler and ESP are operating properly, the opacity measured by the COMS will be significantly below 20%.

Any rolling one-hour average of the six-minute average opacities measured that approaches or exceeds 18% is indicative of problems with boiler operation and/or efficacy of the ESP, therefore opacity is a reasonable indicator of particulate emissions.

ATTACHMENT N

DEERHAVEN GENERATING STATION COMPLIANCE ASSURANCE MONITORING

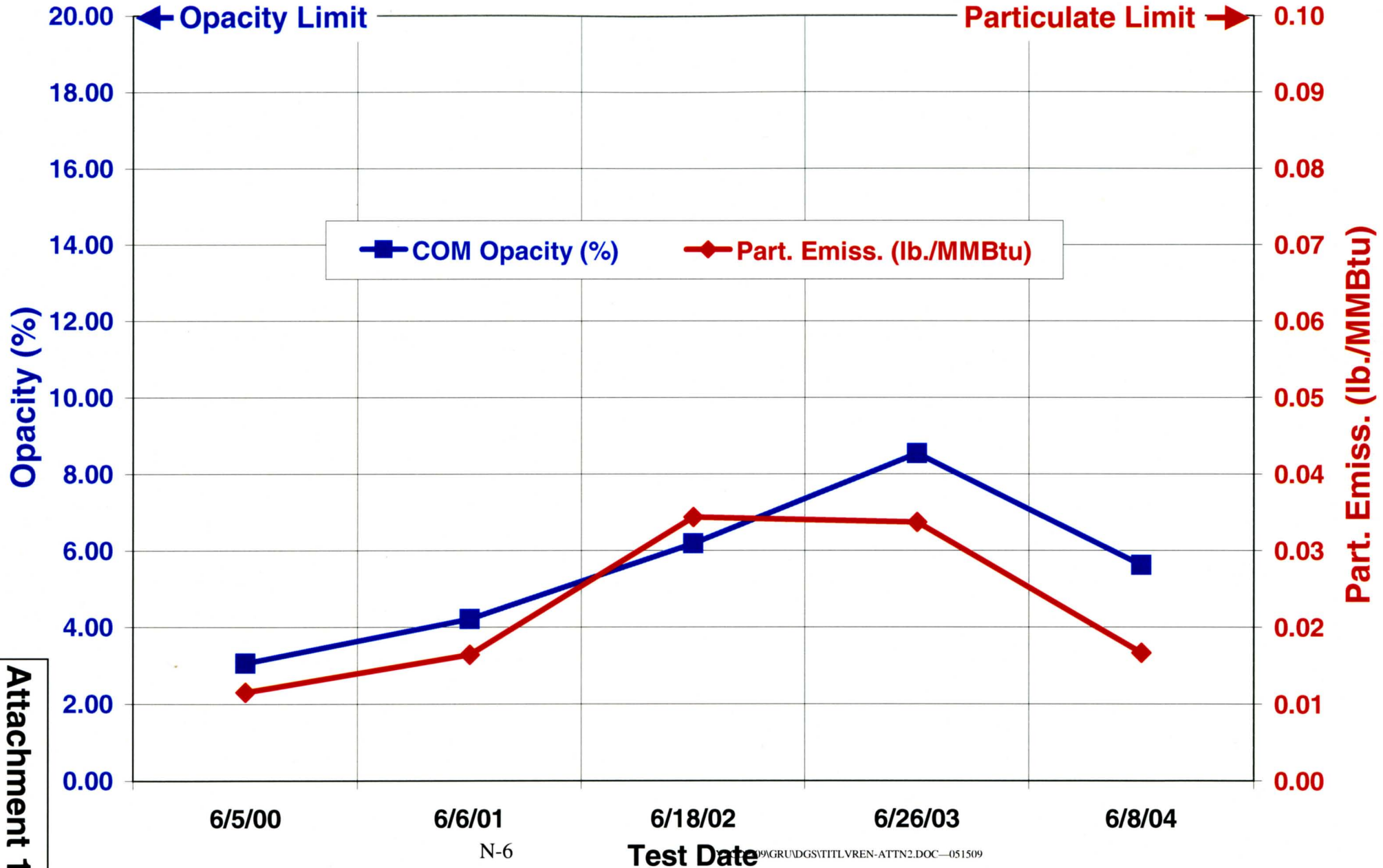
C. Rationale for Selection of Indicator Level

The selected indicator range is a rolling one-hour average of the six-minute average opacities exceeding 18%. When an excursion occurs, the cause of the elevated opacity will be identified in order to determine the appropriate corrective action to be implemented. All excursions will be documented and reported pursuant to the requirements of 40 CFR 64.9. The specific indicator range was selected after an analysis of the last five years of annual compliance testing results (6/5/00, 6/6/01, 6/18/02, 6/26/03, and 6/8/04) and the corresponding COMS opacity readings was performed. Two graphs were generated from these data which are presented as Attachment 1 and Attachment 2.

Attachment 1 displays the COMS opacity and particulate (PM) on the Y-axes and test date on the X-axis. This graph shows clearly that COMS opacity and PM follow each other quite well. Generally, when opacity rises, PM rises and when opacity drops, PM drops. Attachment 2 displays the two data sources plotted against each other. PM is plotted on the Y-axis with opacity plotted on the X-axis. A blue line represents the "best fit" line through the five data points and results in an R^2 value of 0.73. Extrapolating this "best fit" line until it intersects the PM limit of 0.10 lb/MMBtu shows that this particular representation predicts an opacity of about 24% which is in excess of the 20% limit.

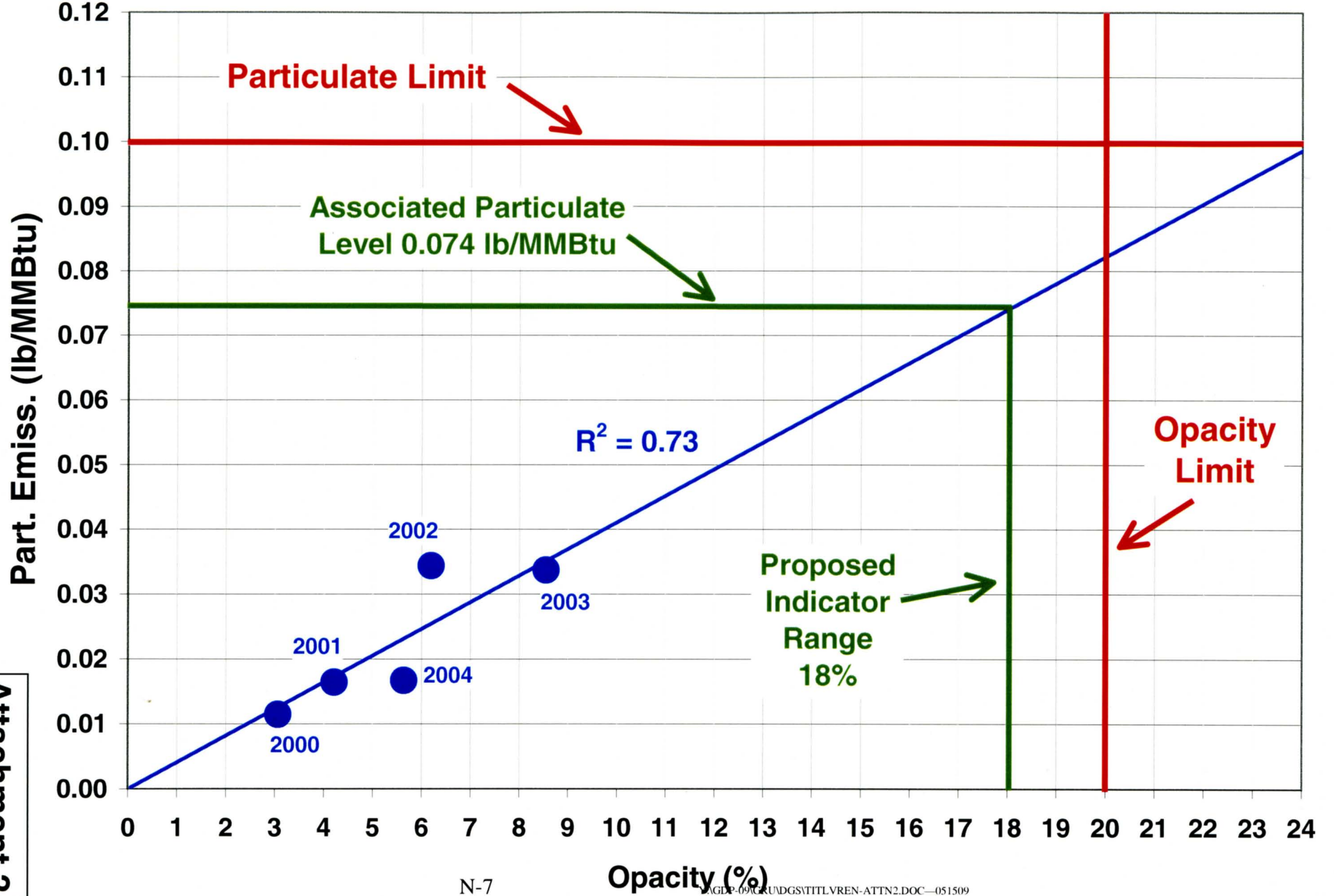
The selected indicator range of a rolling one-hour average of the six-minute average opacities of 18% corresponds to a projected PM rate of 0.074 lb/MMBtu which still is well below the three-hour average limit of 0.10 lb/MMBtu. This level provides a significant amount of "safety factor" for assuring compliance with the PM limit. In addition, actual PM emissions following installation of the Unit 2 fabric filter are expected to be well below the NSPS Subpart D emission standard.

Gainesville Regional Utilities Deerhaven Generating Station Unit 2



Attachment 1

Gainesville Regional Utilities Deerhaven Generating Station Unit 2



Attachment 2

ATTACHMENT O

ALTERNATE METHODS OF OPERATION

ATTACHMENT O

**DEERHAVEN GENERATING STATION
ALTERNATIVE METHODS OF OPERATION**

A. UNIT 1 (EU ID 003)

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range, HHV (10 ⁶ Btu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas Propane (For Ignition)	N/A	0 – 960	24	7	8,760
2	Residual Fuel Oils (Nos. 4, 5, and 6)	2.5	0 – 960	24	7	8,760
3	Distillate Fuel Oils (Nos. 1 and 2)	2.5	0 – 960	24	7	8,760
4	On-Specification Used Oil	2.5	0 – 960	24	7	¹
5	Any Combination of the Above Fuels	2.5	0 – 960	24	7	8,760 ¹

¹ Combustion of on-specification used oil limited to no more than 1,500,000 gallons in any consecutive 12 month period per Condition A.11.b of Title V Permit No. 0010006-003-AV.

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ATTACHMENT O

**DEERHAVEN GENERATING STATION
ALTERNATIVE METHODS OF OPERATION**

B. UNIT 2 (EU ID 005)

Method No.	Fuel Type	Fuel Sulfur Content ¹ (Wt %)	Heat Input Range, HHV (10 ⁶ Btu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Coal	N/A	0 – 2,428	24	7	8,760
2	Natural Gas	N/A	0 – 591	24	7	8,760
3	Distillate Fuel Oils (Nos. 1 and 2)	N/A	0 – 900	24	7	8,760
4	Any Combination of the Above Fuels	N/A	0 – 2,428	24	7	8,760

¹ Unit 2 is subject to the applicable SO₂ emission standards of NSPS Subpart D.

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ATTACHMENT O

**DEERHAVEN GENERATING STATION
ALTERNATIVE METHODS OF OPERATION**

C. COMBUSTION TURBINE NO. 3 (EU ID 006)

Method No.	Fuel Type	Fuel Sulfur Content (Wt %)	Heat Input Range, HHV (10 ⁶ Btu/hr) ¹	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	Natural Gas	N/A	0 – 971.1	24	7	3,900
2	Distillate Fuel Oils (Nos. 1 and 2)	0.05	0 – 990.6	24	7	2,000
3	Any Combination of the Above Fuels	N/A	0 – 990.6	24	7	3,900 ²

03

- ¹ Maximum heat input rates based on 100 percent CT load and ISO ambient conditions (1 atmosphere pressure, 59°F, and 60 percent relative humidity).
- ² Combustion of distillate fuel oils is limited to no more than 2,000 hours per year per Condition C.0. of Title V Permit No. 0010006-003-AV.