HARDEE POWER STATION

TITLE V OPERATION PERMIT RENEWAL APPLICATION

Prepared for:

HARDEE POWER PARTNERS LIMITED

Bowling Green, Florida

Prepared by:

ECT Environmental Consulting & Technology, Inc.
3701 Northwest 98th Street
Gainesville, Florida 32606

ECT No. 130945-0100

May 2014

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INTRODUCTION

The Hardee Power Partners, Limited (HPP), Hardee Power Station (HPS) is located at 6695 North County Road 663 in Bowling Green, Hardee County, Florida. HPS is a nominal 370-megawatt (MW) electrical generation facility comprised of two dual-fuel combined cycle combustion turbine (CT) and heat recovery steam generator (HRSG) units (Emissions Units [EUs] 001 and 002) and two dual-fuel simple cycle CTs (EUs 003 and 005), water treatment facilities, ancillary support equipment, as well as a variety of insignificant and unregulated emissions units and activities.

The combined cycle CT/HRSG units (CT-1A and CT-1B) are General Electric (GE) 7EA CTs fired with natural gas and No. 2 distillate fuel oil. Each CT has a nominal generation capacity of 75 MW. Steam produced by the HRSGs is routed to a common steam turbine generator with a nominal generation capacity of 70 MW. Accordingly, the combined cycle CT/HRSG units have a total nominal generation capacity of 220 MW. The combined cycle unit HRSGs are each equipped with bypass stacks to allow CT-1A and CT-1B to operate in simple cycle mode. The simple cycle CTs (CT-2A and CT-2B) are also GE 7EA units that are fired with natural gas and No. 2 distillate fuel oil. Each simple cycle CT has a nominal generation capacity of 75 MW.

The HPS CTs began commercial operation after 1977 and therefore are subject to New Source Performance Standard (NSPS) Subpart GG, Standards of Performance for Stationary Gas Turbines, which applies to gas turbines constructed after October 3, 1977. The HPS CTs were also subject to prevention of significant deterioration (PSD) review, including best available control technology (BACT). CT-1A, CT-1B, and CT-2A are affected emissions units under the Clean Air Interstate Rule (CAIR). CT-2B is an affected emissions unit under both the Acid Rain Program (ARP) and CAIR.

Operation of HPS is currently authorized by Florida Department of Environmental Protection (FDEP) Title V Air Operation Permit No. 0490015-016-AV, issued with an effective date of November 21, 2012, and an expiration date of January 1, 2015.

FDEP's 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 apply for a permit renewal at least 225 days prior to permit expiration for permits that expire on or after June 1, 2009. For HPS, which has a Title V air operation permit expiration date of January 1, 2015, this regulatory deadline results in the requirement to submit a Title V air operation permit renewal application no later than May 20, 2014.

This application package, consisting of FDEP's Application for Air Permit – Long Form, effective March 11, 2010, and all required supplemental facility and emissions unit information, constitutes HPP's Title V permit renewal application for HPS 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—Facility Plot Plan.
- Attachment C—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 and Related Correspondence.
- Attachment H—Requested Changes to Current Title V Air Operation Permit.
- Attachment I—Acid Rain Part.
- Attachment J—CAIR Part.
- Attachment K—Fuel Specifications.
- Attachment L—Procedures for Startup and Shutdown.
- Attachment M—Compliance Assurance Monitoring.
- Attachment N—Alternate Methods of Operation.

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR RESOURCE MANAGEMENT

APPLICATION FOR AIR PERMIT – LONG FORM

Department of
Environmental Protection

Division of Air Resource Management

APPLICATION FOR AIR PERMIT - LONG FORM

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: **Hardee Power Partners, Ltd.**	
2. Site Name: **Hardee Power Station**	
3. Facility Identification Number: **0490015**	
4. Facility Location... Street Address or Other Locator: **6695 North County Road 663** City: **Bowling Green** County: **Hardee** Zip Code: **33834-6817**	
5. Relocatable Facility? ☐ Yes ☒ No	6. Existing Title V Permitted Facility? ☒ Yes ☐ No

Application Contact

1. Application Contact Name: **Ralph E. Randall, Regional Plant Director**
2. Application Contact Mailing Address... Organization/Firm: **Hardee Power Partners, Ltd.** Street Address: **6695 North County Road 663** City: **Bowling Green** State: **Florida** Zip Code: **33834-6817**
3. Application Contact Telephone Numbers... Telephone: (**863**) **375 - 3266** ext. Fax: (**863**) **375 - 2092**
4. Application Contact E-mail Address: **rrandall@invenergyllc.com**

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3. PSD Number (if applicable):
2. Project Number(s):	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

Operation of the Hardee Power Partners, Ltd. (HPP) Hardee Power Station is currently authorized by Final Title V Operation Permit No. 0490015-016-AV. This permit was issued with an effective date of November 21, 2012, and an expiration date of January 1, 2015.

In accordance with Rule 62-213.420(1)(a)2., Florida Administrative Code (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 Hardee Power Station, this regulatory deadline requires the submittal of a Title V permit renewal application no later than May 20, 2014. This application and supporting documents constitutes HPP's request for renewal of Hardee Power Station Final Title V Operation Permit Revision No. 0490015-016-AV.

Attachment H contains requested changes to current Title V permit conditions. If FDEP determines that these changes also require a revision to an underlying air construction permit, HPP requests that the air construction permit revisions be processed concurrently with the Title V renewal application.

APPLICATION INFORMATION

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Processing Fee
001	**Combustion Turbine (CT) 1A with unfired heat recovery steam generator (HRSG)**	**N/A**	**N/A**
002	**CT-1B with unfired heat recovery steam generator**	**N/A**	**N/A**
003	**CT-2A**	**N/A**	**N/A**
004	**One 4.4-million-galon No. 2 fuel oil storage tank**	**N/A**	**N/A**
005	**CT-2B**	**N/A**	**N/A**

Application Processing Fee

Check one: ☐ Attached - Amount: $_____ ☒ Not Applicable

Note: The Hardee Power Station has been issued Final Title V Operation Permit No. 0490015-016-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 E-mail Address:
5. Owner/Authorized Representative Statement: *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.* _____ _____ Signature Date

APPLICATION INFORMATION

Application Responsible Official Certification

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

1. Application Responsible Official Name:
   Ralph E. Randall, Regional Plant Director

2. Application Responsible Official Qualification (Check one or more of the following options, as applicable):

   ☐ 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.

   ☐ For a partnership or sole proprietorship, a general partner or the proprietor, respectively.

   ☐ For a municipality, county, state, federal, or other public agency, either a principal executive officer or ranking elected official.

   ☒ The designated representative at an Acid Rain source or CAIR source.

3. Application Responsible Official Mailing Address...
   Organization/Firm: **Hardee Power Partners, Ltd.**
   Street Address: **6695 North County Road 663**
   City: **Bowling Green** State: **Florida** Zip Code: **33834-6817**

4. Application Responsible Official Telephone Numbers...
   Telephone: **(863) 375 – 3266** ext. Fax: **(863) 375 – 2092**

5. Application Responsible Official E-mail Address: **rrandall@invenergyllc.com**

6. Application Responsible Official Certification:

   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.

Ralph E Randall
Signature

5-15-14
Date

APPLICATION INFORMATION

Professional Engineer Certification

1. Professional Engineer Name: **William F. Karl**
   Registration Number: **67498**
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. **11313** Fax: **(352) 332 – 6722**
4. Professional Engineer E-mail Address: **wkarl@ectinc.com**
5. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*

(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this application for air permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

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

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

(4) If the purpose of this application is to obtain an air construction permit (check here ☐, 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 ☐, 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.

(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 , 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.

William F. Karl — Signature

5/14/14 — Date

(seal)

* Attach any exception to certification statement.

II. FACILITY INFORMATION

A. GENERAL FACILITY INFORMATION

Facility Location and Type

1. Facility UTM Coordinates... Zone **17** East (km) **404.8** **(NAD 82)** North (km) **3,057.4**		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
3. Governmental Facility Code: **0**	4. Facility Status Code: **A**	5. Facility Major Group SIC Code: **49**	6. Facility SIC(s): **4911**
7. Facility Comment :			

Facility Contact

1. Facility Contact Name: **Ralph E. Randall, Regional Plant Director**
2. Facility Contact Mailing Address... Organization/Firm: **Hardee Power Partners, Ltd.** Street Address: **6695 North County Road 663** City: **Bowling Green** State: **Florida** Zip Code: **33834-6817**
3. Facility Contact Telephone Numbers... Telephone: (**863**) **375 - 3266** ext. Fax: (**863**) **375 - 2092**
4. Facility Contact E-mail Address: **rrandall@invenergyllc.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: ( ) – ext. 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. ☐ Small Business Stationary Source	☐ Unknown
2. ☐ Synthetic Non-Title V Source	
3. ☒ Title V Source	
4. ☒ Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5. ☐ Synthetic Minor Source of Air Pollutants, Other than HAPs	
6. ☒ Major Source of Hazardous Air Pollutants (HAPs)	
7. ☐ Synthetic Minor Source of HAPs	
8. ☒ One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9. ☐ One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10. ☐ One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11. ☐ Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12. Facility Regulatory Classifications Comment: **CT-1A, CT-1B, CT-2A, and CT-2B (EUs 001, 002, 003, and 005) are subject to New Source Performance Standards (NSPS) Subpart GG, Standards of Performance for Stationary Gas Turbines.**	

FACILITY INFORMATION

List of Pollutants Emitted by Facility

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
SO_2	**A**	**N**
NO_x	**A**	**N**
CO	**A**	**N**
VOC	**A**	**N**
PM_{10}	**A**	**N**
H095 (formaldehyde)	**A**	**N**
H106 (hydrochloric acid)	**A**	**N**
H107 (hydrofluoric acid)	**A**	**N**
H114 (manganese compounds)	**A**	**N**
HAPs	**A**	**N**

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps ***Not applicable***

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:

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) ☒ Attached, Document ID: **Attachment B** ☐ 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) ☒ Attached, Document ID: **Attachment C** ☐ 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) ☒ Attached, Document ID: **Attachment D** ☐ Previously Submitted, Date:_____

Additional Requirements for Air Construction Permit Applications ***Not applicable***

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

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for FESOP Applications ***Not applicable***

1. List of Exempt Emissions Units:
   ☐ Attached, Document ID:_____ ☐ 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)
   ☒ Attached, Document ID:**Attachment E** ☐ Not Applicable (revision application)

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)
   ☒ Attached, Document ID:**Attachment F**
   ☐ Not Applicable (revision application with no change in applicable requirements)

3. Compliance Report and Plan: (Required for all initial/revision/renewal applications)
   ☒ Attached, Document ID:**Attachment 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)
   ☐ Attached, Document ID:_____
   ☒ Equipment/Activities Onsite but Not Required to be Individually Listed
   ☐ Not Applicable

5. Verification of Risk Management Plan Submission to EPA: (If applicable, required for initial/renewal applications only)
   ☐ Attached, Document ID:_____ ☒ Not Applicable

6. Requested Changes to Current Title V Air Operation Permit:
   ☒ Attached, Document ID:**Attachment H** ☐ Not Applicable

C. FACILITY ADDITIONAL INFORMATION (CONTINUED)

Additional Requirements for Facilities Subject to Acid Rain or CAIR Program

1. Acid Rain Program Forms:

   Acid Rain Part Application (DEP Form No. 62-210.900(1)(a)):
   ☒ Attached, Document ID: **Attachment 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: **Attachment J** ☐ Previously Submitted, Date: _____
   ☐ Not Applicable (not a CAIR source)

Additional Requirements Comment

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:

CT-1A with unfired HRSG

3. Emissions Unit Identification Number: **001**

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

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

☐ Acid Rain Unit

☒ CAIR Unit

9. Package Unit:
Manufacturer: **General Electric (GE)** Model Number: **PG-7111EA**

10. Generator Nameplate Rating: **96** MW

11. Emissions Unit Comment:

CT-1A shares a common steam turbine generator (STG) with CT-1B. The STG has a nominal generation capacity of 70 megawatts (MW).

Emissions Unit Control Equipment/Method: Control **1** of **1**

1. Control Equipment/Method Description: **Water injection for NO_x control**
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 Control Equipment/Method: Control ___ of ___

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

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: **1,312.3** million Btu/hr**, LHV**	
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: **Maximum heat input rate shown in Field 3 is for No. 2 fuel oil at 32°F ambient temperature and baseload.** **Maximum heat input rate when firing natural gas is 1,268.4 MMBtu/hr, LHV at 32°F ambient temperature and baseload.**	

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: **CT-1A**		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: **90** feet	7. Exit Diameter: **14.5** feet
8. Exit Temperature: **250**°F	9. Actual Volumetric Flow Rate: **751,000** 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: **CT-1A is also equipped with an HRSG bypass stack.**		

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: **1.34**	5. Maximum Annual Rate: **11,696**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **N/A**	8. Maximum % Ash: **N/A**	9. Million Btu per SCC Unit: **950 (LHV)**
10. Segment Comment: **Fields 4 and 5 maximum hourly and annual rates based on 1,268.4 MMBtu/hr (LHV) at 32°F and 8,760 hours per year (hr/yr).**		

Segment Description and Rate: Segment **2** of **2**

1. Segment Description (Process/Fuel Type): **Internal combustion engines, electric generation, distillate oil (No. 2), turbine**		
2. Source Classification Code (SCC): **2-01-001-01**	3. SCC Units: **Thousand gallons burned**	
4. Maximum Hourly Rate: **10.25**	5. Maximum Annual Rate: **89,811**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **0.50**	8. Maximum % Ash: **0.01**	9. Million Btu per SCC Unit: **128 (LHV)**
10. Segment Comment: **Fields 4 and 5 maximum hourly and annual rates based on 1,312.3 MMBtu/hr (LHV) at 32°F and 8,760 hr/yr.**		

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
SO_2			**EL**
NO_x	**028**		**EL**
CO			**EL**
VOC			**EL**
PM/PM_{10}			**EL**
H095 (formaldehyde)			**NA**
H106 (hydrochloric acid)			**NS**
H107 (hydrofluoric acid)			**NS**
H113 (manganese compounds)			**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: **SO_2**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **734.4** lb/hour **1,877.7** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **734.4 lb/hr (No. 2 fuel oil – hourly)** **1.01 × %S (No. 2 fuel oil – annual)** Reference: **Condition A.7, Title V Permit No. 0490015-016-AV, Table 3.1-2a, AP-42 (No. 2 fuel oil)**	7. Emissions Method Code: **0, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil – 0.5-percent sulfur):

SO_2 = 734.4 lb/hr

Annual rate (No. 2 fuel oil – 0.3-percent sulfur):

SO_2 = (1.01 × 0.3 lb/MMBtu) × (12,393,853 MMBtu/yr [HHV]) × (2,000 lb/ton)
= 1,877.7 tons per year (tpy)

11. Potential, Fugitive, and Actual Emissions 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.

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: **0.5 weight percent sulfur** **0.3 weight percent sulfur (annual average)**	4. Equivalent Allowable Emissions: **734.4** lb/hour **1,877.7** tons/year
5. Method of Compliance: **Fuel sampling and analysis per applicable ASTM methods**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.3 (No. 2 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: **N/A**	4. Equivalent Allowable Emissions: **35.8** lb/hour **156.8** tons/year
5. Method of Compliance: **Fuel sampling and analysis per applicable ASTM methods**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.7 (natural gas)**	

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: **NO_x**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **383.8** lb/hour **1,681.0** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **383.8 lb/hr (No. 2 fuel oil)** Reference: **Condition A.6, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

NO_x = 383.8 lb/hr

Annual rate (No. 2 fuel oil):

NO_x = (383.8 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 1,681.0 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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 at 15-percent oxygen**	4. Equivalent Allowable Emissions: **215.9** lb/hour **945.6** tons/year
5. Method of Compliance: **EPA Reference Method 20**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.6.a (natural gas)**	

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: **65 ppmvd at 15-percent oxygen**	4. Equivalent Allowable Emissions: **383.8** lb/hour **1,681.0** tons/year
5. Method of Compliance: **EPA Reference Method 20**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.6.b (No. 2 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: **CO**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **93.4** lb/hour **409.1** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **93.4 lb/hr (No. 2 fuel oil)** Reference: **Condition A.9, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

CO = 93.4 lb/hr

Annual rate (No. 2 fuel oil):

CO = (93.4 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 409.1 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **10 ppmvd**	4. Equivalent Allowable Emissions: **31.3** lb/hour **137.1** tons/year
5. Method of Compliance: **EPA Reference Method 10**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.9 (natural gas)**	

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: **26 ppmvd**	4. Equivalent Allowable Emissions: **93.4** lb/hour **409.1** tons/year
5. Method of Compliance: **EPA Reference Method 10**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.9 (No. 2 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: **VOC**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **10.3** lb/hour **45.1** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **10.3 lb/hr (No. 2 fuel oil)** Reference: **Condition A.10, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

VOC = 10.3 lb/hr

Annual rate (No. 2 fuel oil):

VOC = (10.3 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 45.1 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **2 ppmvd**	4. Equivalent Allowable Emissions: **3.6** lb/hour **15.8** tons/year
5. Method of Compliance: **EPA Reference Method 25A**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.10 (natural gas)**	

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: **5 ppmvd**	4. Equivalent Allowable Emissions: **10.3** lb/hour **45.1** tons/year
5. Method of Compliance: **EPA Reference Method 25A**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.10 (No. 2 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: **PM/PM_{10}**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **10** lb/hour **43.8** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **10 lb/hr (No. 2 fuel oil)** Reference: **Condition A.8, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

PM/PM_{10} = 10 lb/hr

Annual rate (No. 2 fuel oil):

PM/PM_{10} = (10 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 43.8 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **N/A**	4. Equivalent Allowable Emissions: **5** lb/hour **21.9** tons/year
5. Method of Compliance: **EPA Reference Method 5, 5B, or 17**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.8 (natural gas)**	

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: **N/A**	4. Equivalent Allowable Emissions: **10** lb/hour **43.8** tons/year
5. Method of Compliance: **EPA Reference Method 5, 5B, or 17**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition A.8 (No. 2 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: **H095 (formaldehyde)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **1.0** lb/hour **4.4** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.00071 lb/MMBtu, HHV (natural gas)** Reference: **Table 3.1-3, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (natural gas):

Formaldehyde = (0.000071 lb/MMBtu) × (1,402 MMBtu/hr) = 1.0 lb/hr

Annual rate (natural gas):

Formaldehyde = (1.0 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 4.4 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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 (hydrochloric acid)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **2.6** lb/hour **11.6** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.00187 lb/MMBtu, HHV (No. 2 fuel oil) (30 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

Hydrochloric acid = (0.00187 lb/MMBtu) × (1,415 MMBtu/hr) = 2.6 lb/hr

Annual rate (No. 2 fuel oil):

Hydrochloric acid = (2.6 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 11.6 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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 (hydrofluoric acid)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **1.3** lb/hour **5.9** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.000947 lb/MMBtu, HHV (No. 2 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

Hydrofluoric acid = (0.000947 lb/MMBtu) × (1,415 MMBtu/hr) = 1.3 lb/hr

Annual rate (No. 2 fuel oil):

Hydrofluoric acid = (1.3 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 5.9 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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: **H113 (manganese compounds)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **1.1** lb/hour **4.9** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.00079 lb/MMBtu, HHV (No. 2 fuel oil)** Reference: **Table 3.1-5, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

Manganese compounds = (0.00079 lb/MMBtu) × (1,415 MMBtu/hr) = 1.1 lb/hr

Annual rate (No. 2 fuel oil):

Manganese compounds = (1.1 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 4.9 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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: **5.8** lb/hour **25.3** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.0041 lb/MMBtu, HHV (Composite, No. 2 fuel oil)** Reference: **Tables 3.1-4 and -5, AP-42; EPA boiler MACT utility HAP study**	7. Emissions Method Code: **3, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

HAPs = (0.0041 lb/MMBtu) × (1,415 MMBtu/hr) = 5.8 lb/hr

Annual rate (No. 2 fuel oil):

HAPs = (5.8 lb/hr) × (8,760 hr/yr/2,000 lb/ton) = 25.3 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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: ☐ Rule ☒ Other
3. Allowable Opacity: Normal Conditions: **10** % Exceptional Conditions: **N/A** % Maximum Period of Excess Opacity Allowed: **N/A** min/hour	
4. Method of Compliance: **EPA Reference Method 9**	
5. Visible Emissions Comment: **Title V Permit No. 0490015-016-AV, Condition A.11.** **Emissions limit applicable during combustion of natural gas.**	

Visible Emissions Limitation: Visible Emissions Limitation **2** of **2**

1. Visible Emissions Subtype: **VE20**	2. Basis for Allowable Opacity: ☐ Rule ☒ Other
3. Allowable Opacity: Normal Conditions: **20** % Exceptional Conditions: **N/A** % Maximum Period of Excess Opacity Allowed: **N/A** min/hour	
4. Method of Compliance: **EPA Reference Method 9**	
5. Visible Emissions Comment: **Title V Permit No. 0490015-016-AV, Condition A.11.** **Emissions limit applicable during combustion of No. 2 fuel oil.**	

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:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: **Thermo Electron** Model Number: **42I**	Serial Number: **0732425807**
5. Installation Date: **11/09/07**	6. Performance Specification Test Date: **12/25/07**
7. Continuous Monitor Comment: **Required by 40 CFR 96 (CAIR).**	

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

1. Parameter Code: **CO_2**	2. Pollutant(s): **N/A**
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: **Thermo Electron** Model Number: **410I**	Serial Number: **0800325523**
5. Installation Date: **11/09/07**	6. Performance Specification Test Date: **12/25/07**
7. Continuous Monitor Comment: **Required by 40 CFR 96 (CAIR).**	

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)
   ☒ Attached, Document ID: **Attachment C** ☐ 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)
   ☒ Attached, Document ID: **Attachment K** ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ 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)
   ☒ Attached, Document ID: **Attachment L** ☐ Previously Submitted, Date _____
   ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☒ Previously Submitted, Date: **07/02/13**
   Test Date(s)/Pollutant(s) Tested: **06/11/13 – CO, NO_x, and VE**
   _____
   ☐ To be Submitted, Date (if known): _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ 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:
   ☐ Attached, Document ID: _____ ☒ Not Applicable

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)): ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☒ Attached, Document ID: **Attachment F**
2. Compliance Assurance Monitoring: ☒ Attached, Document ID: **Attachment M** ☐ Not Applicable
3. Alternative Methods of Operation: ☒ Attached, Document ID: **Attachment N** ☐ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

NOTE:

EU 001 (CT-1A) and EUs 002 and 003 (CT-1B and CT-2A) are identical emissions units; i.e., all are GE 7EA CTs. CT-1A and CT-1B each have an associated unfired HRSG and share a common STG. CT-2A can only operate as a simple-cycle CT; i.e., does not have an HRSG.

Accordingly, the information provided in Section III, Emissions Unit Information, Section 1 for EU 001 is also applicable to Sections 2 and 3 for EUs 002 and 003 with the exception of identification numbers.

Section H, Continuous Monitor Information, for CT-1B (EU 002) is provided in the following table:

EU	Parameter	Manufacturer	Model	Serial Number	Installation Date	Performance Date
002	NO_x	Thermo Electron	42I	0732425808	11/09/07	12/22//07
002	CO_2	Thermo Electron	410I	0800325528	11/09/07	12/22/07

CT-2A (EU 003) is equipped with a predictive emissions monitoring system (PEMS) in accordance with the requirements of 40 CFR 96 (CAIR).

EU	Parameter	Manufacturer	Model	Serial Number	Installation Date	Performance Date
003	Gas flow meter	Morfflow-Lin	8-inch Orifice 42I	FE-MG2-1-2A	11/09/2007	12/07/2007
004	Oil flow meter	Turhoffer	HO2X2-22-200-CB	120973	11/09/2007	12/10/2007

Compliance demonstration information for CT-1B and CT-2A is as follows:

- **CT-1B: Test date – 04/18/12; submitted 05/09/12; pollutants tested – NO_x, CO, and VE (natural gas).**
- **CT-2A: Test date – 11/10/09; submitted 12/09; pollutants tested – NO_x, SO_2, CO, VOC, and VE.**

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:

One 4.4-million-gallon No. 2 fuel oil storage tank

3. Emissions Unit Identification Number: **004**

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

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

☐ Acid Rain Unit

☐ CAIR Unit

9. Package Unit:
Manufacturer: Model Number:

10. Generator Nameplate Rating: MW

11. Emissions Unit Comment:

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:

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:

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:		

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment **1** of **2**

1. Segment Description (Process/Fuel Type): **Petroleum and solvent evaporation, petroleum liquid storage, fixed-roof tanks, distillate fuel oil No. 2: breathing loss**		
2. Source Classification Code (SCC): **4-03-010-19**	3. SCC Units: **Thousand gallons stored**	
4. Maximum Hourly Rate: **N/A**	5. Maximum Annual Rate: **4,400**	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:		

Segment Description and Rate: Segment **2** of **2**

1. Segment Description (Process/Fuel Type): **Petroleum and solvent evaporation, petroleum liquid storage, fixed-roof tanks, distillate fuel oil No. 2: working loss**		
2. Source Classification Code (SCC): **4-03-010-78**	3. SCC Units: **Thousand gallons throughput**	
4. Maximum Hourly Rate: **N/A**	5. Maximum Annual Rate: **97,065**	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:		

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
Potential VOC emissions <5.0 tpy			

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 tons/year	4. Synthetically Limited? ☐ Yes ☐ 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: ☐ 5 years ☐ 10 years
10. Calculation of Emissions:	
11. Potential, Fugitive, and Actual Emissions 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):	

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):	

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: ☐ Rule ☐ 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: ☐ Rule ☐ Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

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:	☐ Rule ☐ 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:	☐ Rule ☐ Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

I. EMISSIONS UNIT ADDITIONAL INFORMATION

Additional Requirements for All Applications, Except as Otherwise Stated

Not applicable

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)
   ☐ Attached, Document ID: _____ ☐ 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)
   ☐ Attached, Document ID: _____ ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____

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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☐ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ Previously Submitted, Date: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ To be Submitted, Date (if known):_____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ 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:
   ☐ Attached, Document ID: _____ ☐ Not Applicable

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)): ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☒ Attached, Document ID: **Attachment F**
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation: ☐ Attached, Document ID: _____ ☒ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☒ Not Applicable

Additional Requirements Comment

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:

Combustion turbine 2B (CT-2B)

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

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

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

☒ Acid Rain Unit

☒ CAIR Unit

9. Package Unit:
Manufacturer: **General Electric (GE)** Model Number: **PG-7111EA**

10. Generator Nameplate Rating: **95** MW

11. Emissions Unit Comment:

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:

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: **1,060.0** million Btu/hr**, LHV**	
4. Maximum Incineration Rate: pounds/hr tons/day	
5. Requested Maximum Operating Schedule: **(Natural gas)**	
24 hours/day	**7** days/week
52 weeks/year	**8,760** 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 and baseload.** **Maximum heat input rate when firing natural gas is 950.0 MMBtu/hr, LHV, at 59°F ambient temperature and baseload.** **No. 2 fuel oil firing is limited to no more than 876 hr/yr.**	

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: **CT-2B**		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: **85** feet	7. Exit Diameter: **14.8** feet
8. Exit Temperature: **1,000**°F	9. Actual Volumetric Flow Rate: **1,465,500** 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:		

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: **1.00**	5. Maximum Annual Rate: **8,760**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit: **950 (LHV)**
10. Segment Comment: **Fields 4 and 5 maximum hourly and annual rates based on 950 MMBtu/hr (LHV) at 59°F and 8,760 hr/yr.**		

Segment Description and Rate: Segment **2** of **2**

1. Segment Description (Process/Fuel Type): **Internal combustion engines, electric generation, distillate oil (No. 2), turbine**		
2. Source Classification Code (SCC): **2-01-001-01**	3. SCC Units: **Thousand gallons burned**	
4. Maximum Hourly Rate: **8.28**	5. Maximum Annual Rate: **7,254**	6. Estimated Annual Activity Factor: **N/A**
7. Maximum % Sulfur: **0.05**	8. Maximum % Ash: **0.01**	9. Million Btu per SCC Unit: **128 (LHV)**
10. Segment Comment: **Fields 4 and 5 maximum hourly and annual rates based on 1,060 MMBtu/hr (LHV) at 59°F and 8,760 hr/yr.**		

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
SO_2			**EL**
NO_x	**025, 028**		**EL**
CO			**EL**
VOC			**EL**
PM/PM_{10}			**NS**
H095 (formaldehyde)			**NS**
H106 (hydrochloric acid)			**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: **SO_2**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **57.7** lb/hour **49.7** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **1.01 × percent sulfur (No. 2 fuel oil) – lb/MMBtu, HHV** **0.94 × percent sulfur (natural gas) – lb/MMBtu, HHV** 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil – 0.05-percent sulfur):

SO_2 = (1.01 × 0.05 lb/MMBtu) × (1,143 × MMBtu/hr) = 57.7 lb/hr

Annual rate (No. 2 fuel oil and natural gas):

SO_2 = [(57.7 lb/hr) × (876 hr/yr)] + [(0.94 × 0.0063 lb/MMBtu) × (1,050 MMBtu/hr × 7,884 hr/yr)] × (1 ton/2,000 lb)
= 49.7 tpy

11. Potential, Fugitive, and Actual Emissions Comment:

Natural gas sulfur content of 0.0063 weight percent based on 2.0 grains of sulfur per 100 cubic feet (gr S/100 ft^3)

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: **2.0 gr S/100 ft^3**	4. Equivalent Allowable Emissions: **6.2** lb/hour **27.1** tons/year
5. Method of Compliance: **Fuel sampling and analysis per applicable ASTM methods**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.8 (natural gas)**	

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: **0.05 weight percent sulfur**	4. Equivalent Allowable Emissions: **57.7** lb/hour **25.3** tons/year
5. Method of Compliance: **Fuel sampling and analysis per applicable ASTM methods**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.8 (No. 2 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: **NO_x**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **167.0** lb/hour **199.3** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **167.0 lb/hr (No. 2 fuel oil)** Reference: **Condition B.6.b, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

NO_x = 167.0 lb/hr

Annual rate (No. 2 fuel oil and natural gas):

NO_x = [(167.0 lb/hr) × (876 hr/yr)] + [(32.0 lb/hr) × (7,884 hr/yr)] × (1 ton/2,000 lb) = 199.3 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **9.0 ppmvd at 15-percent oxygen**	4. Equivalent Allowable Emissions: **32.0** lb/hour **140.2** tons/year
5. Method of Compliance: **EPA Reference Method 20**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.6.a (natural gas)**	

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: **42.0 ppmvd at 15-percent oxygen**	4. Equivalent Allowable Emissions: **167.0** lb/hour **73.1** tons/year
5. Method of Compliance: **EPA Reference Method 20**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.6.b (No. 2 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: **CO**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **43.0** lb/hour **188.3** tons/year	4. Synthetically Limited? ☐ Yes ☒ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **43.0 lb/hr (Natural gas or No. 2 fuel oil)** Reference: **Condition B.7.b, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (Natural gas or No. 2 fuel oil):

CO = 43.0 lb/hr

Annual rate (Natural gas):

CO = [(43.0 lb/hr) × (8,760 hr/yr)] × (1 ton/2,000 lb) = 188.3 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **20.0 ppmvd at 15-percent oxygen**	4. Equivalent Allowable Emissions: **43.0** lb/hour **188.3** tons/year
5. Method of Compliance: **EPA Reference Method 10**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.7.a (natural gas)**	

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: **20.0 ppmvd at 15-percent oxygen**	4. Equivalent Allowable Emissions: **43.0** lb/hour **18.8** tons/year
5. Method of Compliance: **EPA Reference Method 10**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.7.b (No. 2 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: **VOC**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **5.0** lb/hour **10.1** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **5.0 lb/hr (No. 2 fuel oil)** Reference: **Condition B.11.b, Title V Permit No. 0490015-016-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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

VOC = 5.0 lb/hr

Annual rate (No. 2 fuel oil and natural gas):

VOC = [(5.0 lb/hr) × (876 hr/yr)] + [(2.0 lb/hr) × (7,884 hr/yr)] × (1 ton/2,000 lb)
= 10.1 tpy

11. Potential, Fugitive, and Actual Emissions 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.

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: **2.0 ppmvd**	4. Equivalent Allowable Emissions: **2.0** lb/hour **8.8** tons/year
5. Method of Compliance: **EPA Reference Method 25A**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.11.a (natural gas)**	

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: **4.0 ppmvd**	4. Equivalent Allowable Emissions: **5.0** lb/hour **2.2** tons/year
5. Method of Compliance: **EPA Reference Method 25A**	
6. Allowable Emissions Comment (Description of Operating Method): **Title V Permit No. 0490015-016-AV, Condition B.11.b (No. 2 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: **PM/PM_{10}**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **13.7** lb/hour **33.3** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.012 lb/MMBtu, HHV (No. 2 fuel oil)** **0.0066 lb/MMBtu, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

PM/PM_{10} = (0.012 lb/MMBtu) × (1,143 MMBtu/hr) = 13.7 lb/hr

Annual rate (No. 2 fuel oil and natural gas):

PM/PM_{10} = [(13.7 lb/hr) × (876 hr/yr)] + [(0.0066 lb/MMBtu) × (1,050 MMBtu/hr) × (7,884 hr/yr)] × (1 ton/2,000 lb)
= 33.3 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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): **NOTE: Visible emissions is used as a surrogate for PM/PM_{10} per Title V Permit No. 0490015-016-AV, Condition No. B.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):	

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: **H095 (formaldehyde)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **0.32** lb/hour **3.1** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.00028 lb/MMBtu, HHV (No. 2 fuel oil)** **0.000219 lb/MMBtu, HHV (Natural gas)** Reference: **Table 3.1-4, AP-42**	7. Emissions Method Code: **3, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

Formladehyde = (0.00028 lb/MMBtu) × (1,143 MMBtu/hr) = 0.32 lb/hr

Annual rate (No. 2 fuel oil and natural gas):

Formaldehyde = [(0.32 lb/hr) × (876 hr/yr)] + [(0.000219 lb/MMBtu) × (1,050 MMBtu/hr) × (7,884 hr/yr)] × (1 ton/2,000 lb)
= 3.1 tpy

11. Potential, Fugitive, and Actual Emissions Comment:

Natural gas emissions factor based on GE estimate of 91 parts per billion at 15-percent oxygen for dry low-NO_x CTs.

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 __ of ___ ***Not applicable***

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):	

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 (hydrochloric acid)**	2. Total Percent Efficiency of Control: **N/A**
3. Potential Emissions: **2.1** lb/hour **0.9** tons/year	4. Synthetically Limited? ☒ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.00187 lb/MMBtu, HHV (No. 2 fuel oil) (30 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

Hydrochloric acid = (0.00187 lb/MMBtu) × (1,143 MMBtu/hr) = 2.1 lb/hr

Annual rate (No. 2 fuel oil):

Hydrochloric acid = (2.1 lb/hr) × (876 hr/yr/2,000 lb/ton) = 0.9 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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 **4.1** tons/year	4. Synthetically Limited? ☐ Yes ☐ No
5. Range of Estimated Fugitive Emissions (as applicable): **N/A** to tons/year	
6. Emission Factor: **0.0041 lb/MMBtu, HHV (Composite hourly, No. 2 fuel oil)** **0.00089 lb/MMBtu, HHV (Composite annual, No. 2 fuel oil and natural gas)** Reference: **Tables 3.1-3 through 3.1-5, AP-42; EPA boiler MACT supporting data**	7. Emissions Method Code: **3, 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: **N/A** ☐ 5 years ☐ 10 years

10. Calculation of Emissions:

Hourly rate (No. 2 fuel oil):

HAPs = (0.0041 lb/MMBtu) × (1,143 MMBtu/hr) = 4.7 lb/hr

Annual rate (No. 2 fuel oil):

HAPs = (0.00089 lb/MMBtu) × (9,279,304 MMBtu/yr) × 1 ton/2,000 lb) = 4.1 tpy

11. Potential, Fugitive, and Actual Emissions 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.

Allowable Emissions Allowable Emissions __ of ___ ***Not applicable***

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):	

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: **VE10**	2. Basis for Allowable Opacity: ☐ Rule ☒ Other
3. Allowable Opacity: Normal Conditions: **10** % Exceptional Conditions: **N/A** % Maximum Period of Excess Opacity Allowed: **N/A** min/hour	
4. Method of Compliance: **EPA Reference Method 9**	
5. Visible Emissions Comment: **Title V Permit No. 0490015-016-AV, Condition B.10.** **Emissions limit applicable during combustion of natural gas and No. 2 fuel oil**	

Visible Emissions Limitation: Visible Emissions Limitation __ of ____

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

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:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: **TECO** Model Number: **42CHL**	Serial Number: **42CHL-65518-348**
5. Installation Date: **07/01/00**	6. Performance Specification Test Date: **07/01/00**
7. Continuous Monitor Comment: **Required by 40 CFR 75 (ARP) and 40 CFR 96 (CAIR).**	

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

2. Parameter Code: **Oxygen**	2. Pollutant(s): **N/A**
3. CMS Requirement:	☒ Rule ☐ Other
4. Monitor Information... Manufacturer: **Servomex** Model Number: **1440C**	Serial Number: **01420C/1298**
5. Installation Date: **07/01/00**	6. Performance Specification Test Date: **07/01/00**
7. Continuous Monitor Comment: **Required by 40 CFR 75 (ARP) and 40 CFR 96 (CAIR).**	

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)
   ☒ Attached, Document ID: **Attachment C** ☐ 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)
   ☒ Attached, Document ID: **Attachment K** ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ 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)
   ☒ Attached, Document ID: **Attachment L** ☐ Previously Submitted, Date _____
   ☐ 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)
   ☐ Attached, Document ID: _____ ☐ Previously Submitted, Date _____
   ☒ Not Applicable

6. Compliance Demonstration Reports/Records:
   ☐ Attached, Document ID: _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☒ Previously Submitted, Date: **06/14/10, 06/14/10, and 08/21/12**
   Test Date(s)/Pollutant(s) Tested: **05/06/10 – CO, NO_x, VOC, and VE (natural gas); 05/12/10 – CO, NO_x, VOC, and VE (low sulfur distillate oil); 07/25/12 – CO and VE (natural gas)**
   ☐ To be Submitted, Date (if known): _____
   Test Date(s)/Pollutant(s) Tested: _____
   _____
   ☐ 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:
   ☐ Attached, Document ID: _____ ☒ Not Applicable

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)): ☐ Attached, Document ID: _____ ☐ Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rules 62-212.400(4)(d) and 62-212.500(4)(f), F.A.C.): ☐ Attached, Document ID: _____ ☐ Not Applicable
3. Description of Stack Sampling Facilities: (Required for proposed new stack sampling facilities only) ☐ Attached, Document ID: _____ ☐ Not Applicable

Additional Requirements for Title V Air Operation Permit Applications

1. Identification of Applicable Requirements: ☒ Attached, Document ID: **Attachment F**
2. Compliance Assurance Monitoring: ☐ Attached, Document ID: _____ ☒ Not Applicable
3. Alternative Methods of Operation: ☒ Attached, Document ID: **Attachment N** ☐ Not Applicable
4. Alternative Modes of Operation (Emissions Trading): ☐ Attached, Document ID: _____ ☒ Not Applicable

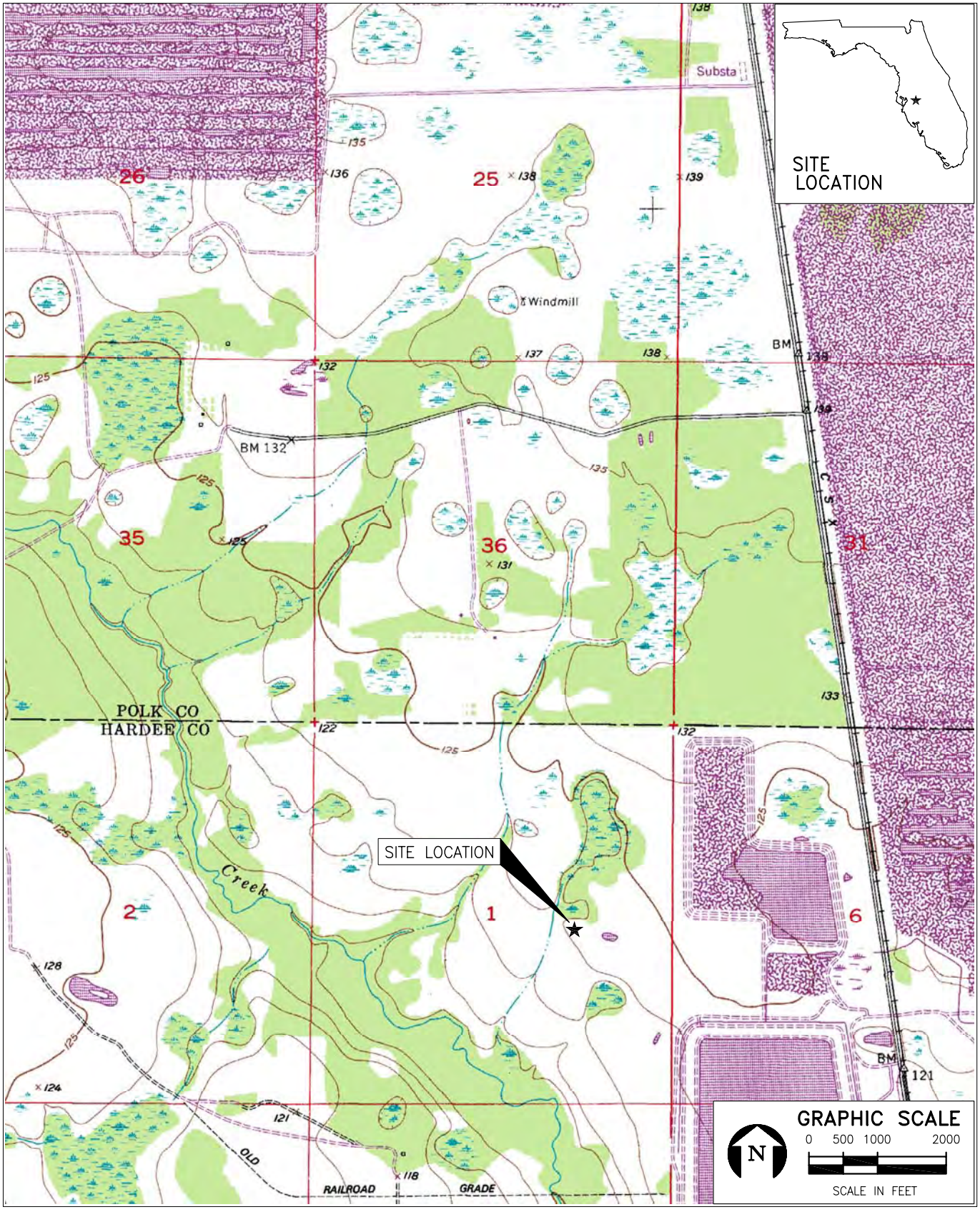
Additional Requirements Comment

ATTACHMENT A

FACILITY LOCATION MAP

M:\acad\090185\Location.dwg

Apr 06, 2009 - 9:51am by jroberts



ATTACHMENT A.

HARDEE POWER STATION

FACILITY LOCATION MAP

Sources: USGS Quad; Baird, Fl, 1987; ECT, 2009.

HARDEE POWER PARTNERS LIMITED

ATTACHMENT B

FACILITY PLOT PLAN

ATTACHMENT B.

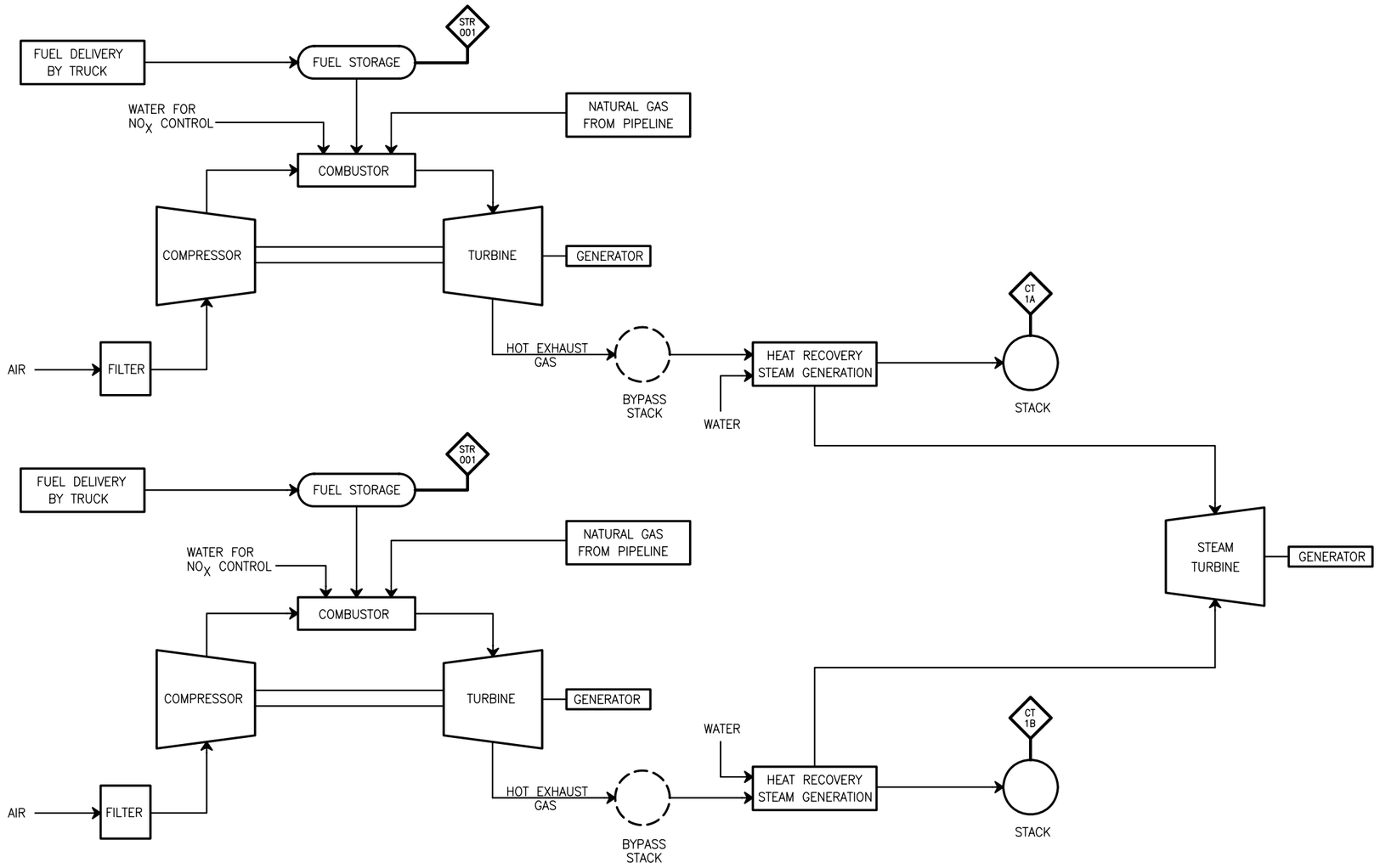
HARDEE POWER STATION PLOT PLAN

Source: ECT, 2014.

HARDEE POWER PARTNERS LIMITED

ATTACHMENT C

PROCESS FLOW DIAGRAMS



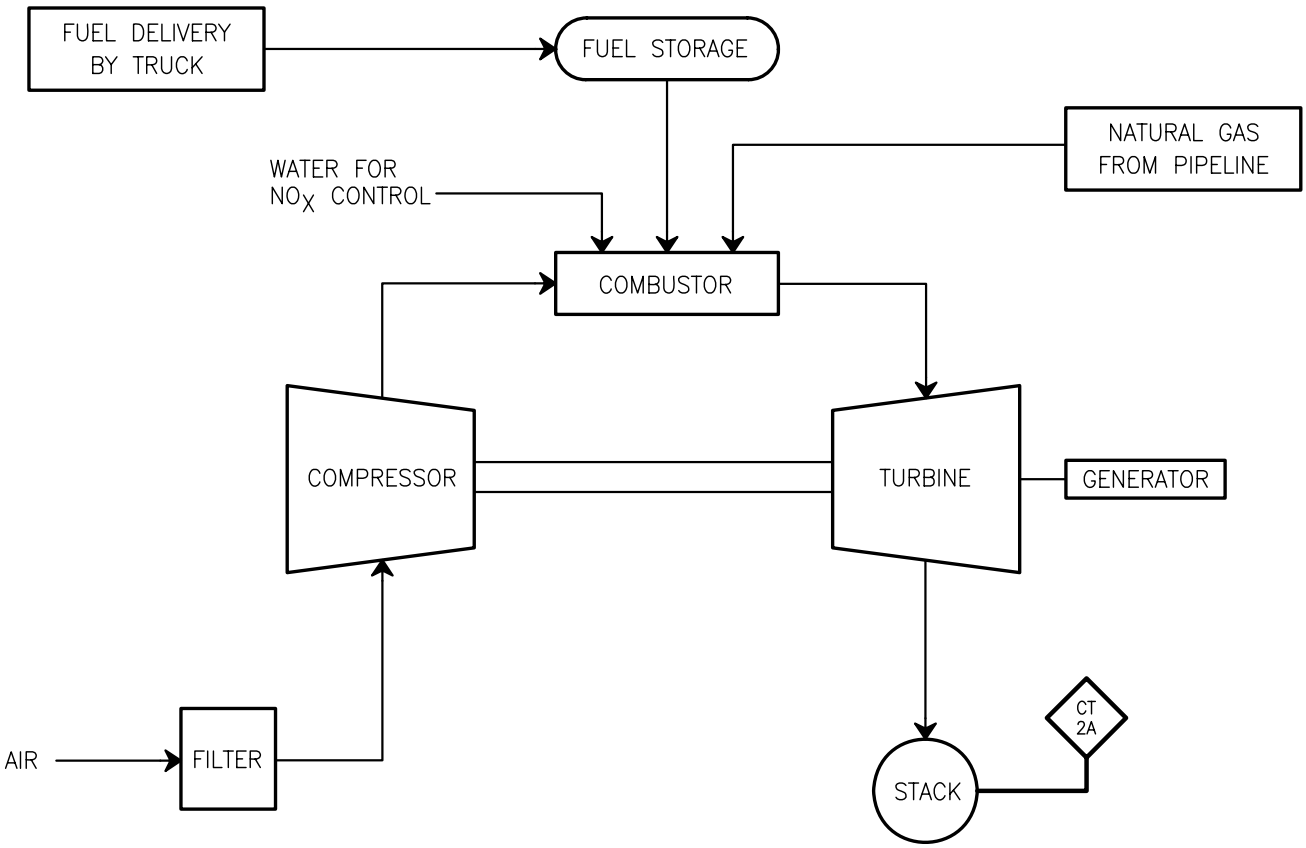
COMBINED CYCLE COMBUSTION TURBINE, UNITS 1A AND 1B

ATTACHMENT C-1.

HARDEE POWER STATION - COMBUSTION TURBINES 1A AND 1B
PROCESS FLOW DIAGRAM

Source: ECT, 2009.

HARDEE POWER PARTNERS LIMITED



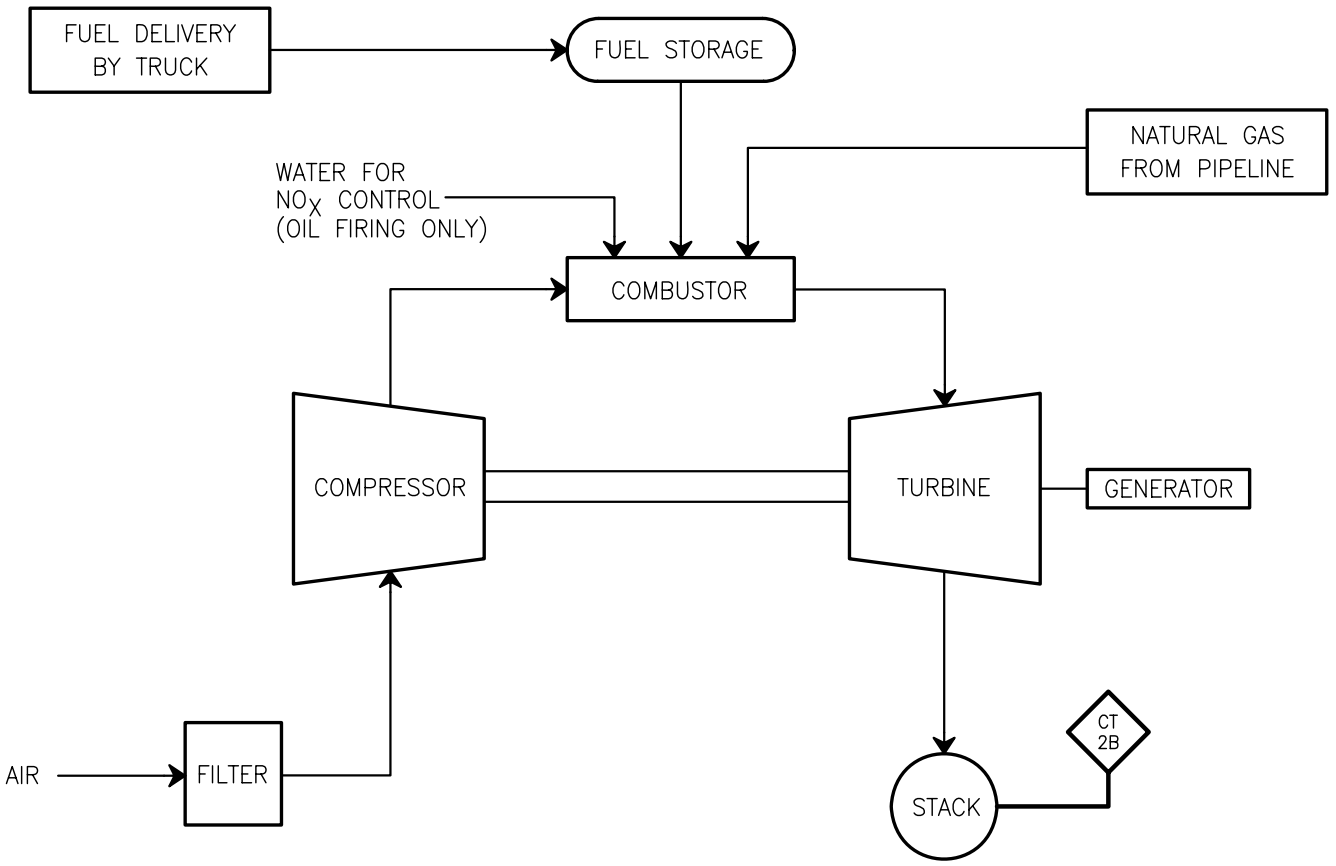
SIMPLE CYCLE COMBUSTION TURBINE, UNIT 2A

ATTACHMENT C-2.

HARDEE POWER STATION - COMBUSTION TURBINE 2A
PROCESS FLOW DIAGRAM

Source: ECT, 2009.

HARDEE POWER PARTNERS LIMITED



SIMPLE CYCLE COMBUSTION TURBINE, UNIT 2B

ATTACHMENT C-3.

HARDEE POWER STATION - COMBUSTION TURBINE 2B
PROCESS FLOW DIAGRAM

Source: ECT, 2009.

HARDEE POWER PARTNERS LIMITED

ATTACHMENT D

PRECAUTIONS TO PREVENT EMISSIONS OF UNCONFINED PARTICULATE MATTER

ATTACHMENT D

HARDEE POWER STATION
PRECAUTIONS TO PREVENT EMISSIONS OF
UNCONFINED PARTICULATE MATTER

Unconfined particulate matter (PM) emissions that may result from operations at HPS include:

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

The following techniques may be used to control unconfined 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.
- Removal of PM from roads and other paved areas to prevent reentrainment and from buildings or work areas to prevent airborne particulates.
- Landscaping or planting of vegetation.
- Use of hoods, fans, filters, and similar equipment to contain, capture and/or vent PM.
- Confining abrasive blasting where possible.
- Enclosure or covering of conveyor systems.
- Other techniques, as necessary.

ATTACHMENT E

LIST OF INSIGNIFICANT ACTIVITIES

ATTACHMENT E

HARDEE POWER 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. Nonhalogenated 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 uses only coatings containing 5.0 percent or less volatile organic compound (VOC) by volume, or the total quantity of coatings containing greater than 5.0 percent VOC by volume used at the facility does 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 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:

ATTACHMENT E

HARDEE POWER STATION
LIST OF INSIGNIFICANT ACTIVITIES

a. Not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.

b. Rated heat input capacity equal to or less than 10 MMBtu/hr and, collectively, total rated heat input capacity of all units claiming this exemption at the same facility less than 10 MMBtu/hr.

c. Does not burn used oil or any fuels other than natural gas or propane, except fuel oil with a sulfur content not exceeding 1.0 percent by weight may be burned during periods of natural gas curtailment.

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. Not subject to the Acid Rain Program, CAIR Program, or any unit-specific applicable requirement.

b. Rated heat input capacity of the unit less than 100 MMBtu/hr and, collectively, total rated heat input capacity of all units claiming this exemption at the same facility less than 250 MMBtu/hr.

c. Does 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 do 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, annual amount of fuel burned by the unit does not exceed 150 million standard cubic feet of natural gas, 1 million gallons of propane, 1 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, equivalent annual amount of each fuel burned by the unit does not exceed maximum annual amount of such fuel, as given in 15.e., multiplied by a fuel percentage. 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. Sum of 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, collective annual amount of fuel burned by all units claiming this exemption at the same facility does not exceed 375 million standard cubic feet of natural gas, 2.5 million gallons of 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, equivalent collective annual amount of each fuel burned by the units claiming this exemption at the same facility does not exceed collective maximum annual amount of such fuel, as given in 15.g., multiplied by a fuel percentage. 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. Sum of 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.

ATTACHMENT F

IDENTIFICATION OF APPLICABLE REQUIREMENTS

ATTACHMENT F

HARDEE POWER STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS

A. FACILITYWIDE REQUIREMENTS

Federal:

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 10/01/13

62-4.030	General Prohibition
62-4.040	Exemptions
62-4.050	Procedure to Obtain Permits; Application
62-4.060	Consultation
62-4.070	Standards for Issuing or Denying Permits; Issuance; Denial
62-4.080	Modification of Permit Conditions
62-4.090	Renewals
62-4.100	Suspension and Revocation
62-4.110	Financial Responsibility
62-4.120	Transfer of Permits
62-4.130	Plant Operation – Problems
62-4.150	Review
62-4.160	Permit Conditions
62-4.210	Construction Permits
62-4.220	Operation Permit for New Sources

CHAPTER 62-210, F.A.C., STATIONARY SOURCES - GENERAL REQUIREMENTS, effective 12/31/13

62-210.300	Permits Required
62-210.300(1)	Air Construction Permits
62-210.300(2)	Air Operation Permits
62-210.300(3)	Exemptions
62-210.300(5)	Notification of Startup
62-210.300(6)	Emissions Unit Reclassification
62-210.300(7)	Transfer of Air Permits
62-210.350	Public Notice and Comment
62-210.350(1)	Public Notice of Proposed Agency Action

ATTACHMENT F

HARDEE POWER STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS

62-210.350(2)	Additional Public Notice Requirements for Emissions Units Subject to Prevention of Significant Deterioration or Non-attainment-Area Preconstruction Review
62-210.350(3)	Additional Public Notice Requirements for Sources Subject to Operation Permits for Title V Sources
62-210.360	Administrative Permit Corrections and Amendments
62-210.370(2)	Computation of Emissions
62-210.370(3)	Annual Operating Report for Air Pollutant Emitting Facility
62-210.650	Circumvention
62-210.700	Excess Emissions
62-210.900	Forms and Instructions
62-210.900(1)	Application for Air Permit – Long Form, Form and Instructions
62-210.900(5)	Annual Operating Report for Air Pollutant Emitting Facility, Form and Instructions
62-210.900(7)	Application for Transfer of Air Permit – Title V and Non-Title V Source

CHAPTER 62-212, F.A.C., STATIONARY SOURCES – PRECONSTRUCTION REVIEW, effective 03/28/12

62-212.300	General Preconstruction Review Requirements
62-212.400	Prevention of Significant Deterioration (PSD)
62-212.500	Preconstruction Review for Nonattainment Areas
62-212.710	Air Emissions Bubble
62-212.720	Actuals Plantwide Applicability Limits (PALS)

CHAPTER 62-213, F.A.C., OPERATION PERMITS FOR MAJOR SOURCES OF AIR POLLUTION, effective 12/31/13

62-213.205	Annual Emissions Fee
62-213.400	Permits and Permit Revisions Required
62-213.405	Concurrent Processing of Permit Applications
62-213.410	Changes Without Permit Revision
62-213.412	Immediate Implementation Pending Revision Process

ATTACHMENT F

HARDEE POWER STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS

62-213.415	Trading of Emissions Within a Source
62-213.420	Permit Applications
62-213.430	Permit Issuance, Renewal, and Revision
62-213.440	Permit Content
62-213.450	Permit Review by EPA and Affected States
62-213.460	Permit Shield
62-213.900	Forms and Instructions
62-213.900(1)	Major Air Pollution Source Annual Emissions Fee Form
62-213.900(7)	Statement of Compliance Form
62-213.900(8)	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 – EMISSIONS STANDARDS, effective 02/16/12

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

CHAPTER 62-297, F.A.C., STATIONARY SOURCES – EMISSIONS MONITORING, effective 02/16/12

62-297.310	General Test Requirements
62-297.320	Standards for Persons Engaged in Visible Emissions Observations
62-297.401	Compliance Test Methods
62-297.440	Supplementary Test Procedures
62-297.620	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

ATTACHMENT F

HARDEE POWER STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS

B. CT-1A, CT-1B, and CT-2A; EUs 001, 002, 003

CLEAN AIR INTERSTATE RULE (CAIR)

40 CFR 96	NO_x Budget Trading Program and CAIR NO_x and SO_2 Trading Programs for State Implementation Plans

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(a), (g), (h), (i), and (j)	Monitoring of Operations
60.335	Test Methods and Procedures
Rule 62-296.470, F.A.C.	Implementation of Federal Clean Air Interstate Rule (CAIR)

FINAL Permit No: 0490015-016-AV, Section III., EUs 001, 002, and 003; Permit Condition Nos. A.1. through A.23

[Please see Attachment H for requested changes to the current Title V Air Operation Permit.]

C. CT-2B; EU 005

ACID RAIN PROGRAM (ARP)

40 CFR 72	Permits Regulation
40 CFR 75	Continuous Emissions Monitoring

ATTACHMENT F

HARDEE POWER STATION
IDENTIFICATION OF APPLICABLE REQUIREMENTS

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 SO_2 Trading Programs for State Implementation Plans

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

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 03/11/10

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

FINAL Permit No: 0490015-016-AV, Section III., EU 005; Permit Condition Nos. B.1. through B.24

[Please see Attachment H for requested changes to the current Title V Air Operation Permit.]

ATTACHMENT G

COMPLIANCE REPORT AND RELATED CORRESPONDENCE

ATTACHMENT G

HARDEE POWER STATION
COMPLIANCE REPORT AND RELATED CORRESPONDENCE

Attachment F to this Title V operation permit renewal application identifies the requirements that are applicable to the emissions units that comprise this Title V source. Each emissions unit is in compliance, and will continue to comply, with the respective applicable requirements.

HARDEE POWER PARTNERS LIMITED

Invenergy

Via Federal Express

February 28, 2014

Mr. Erin DiBacco
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Hardee Power Partners Limited
Hardee Power Station
Title V Air Operation Permit No. 0490015-016-AV
2013 Annual Statement of Compliance

Dear Mr. DiBacco:

Pursuant to the requirements of Chapter 62-213.440(3), Florida Administrative Code (F.A.C.), please find enclosed a signed Statement of Compliance – Title V Source for the calendar year 2013 reporting period for the Hardee Power Station (Facility ID 0490015).

Please contact Sheldron Johnson at (863) 357-3266, Ext. 227 if there are any questions regarding this submittal.

I certify that, based on the information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

Sincerely,

Tim Frost
Plant Manager

Enclosure

cc: U.S. EPA Region 4
Air, Pesticides & Toxics Management Division
Air and EPCRA Enforcement Branch, Air Compliance Section
61 Forsyth Street
Atlanta, GA 30303

6695 North County Road 663, Bowling Green, FL 33834-6817
Phone (863) 375-3266 Fax (863) 375-2092

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)

■ Annual Requirement	☐ Transfer of Permit	☐ Permanent Facility Shutdown

REPORTING PERIOD*	REPORT DEADLINE**
January 1 through December 31 of 2013 (year)	March 1, 2014

*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: Hardee Power Partners Limited

Site Name: Hardee Power Station Facility ID No. 0490015 County: Hardee

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.

Timothy Frost — 2/28/14

(Signature of Title V Source Responsible Official) *(Date)*

Name: **Timothy Frost** Title: **Plant Manager**

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.

Timothy Frost — 2/28/14

(Signature of Acid Rain Source Designated Representative) *(Date)*

Name: **Timothy Frost** Title: **Plant Manager**

{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).}

HARDEE POWER PARTNERS LIMITED

Invenergy

Via Federal Express

February 28, 2014

Mr. Erin DiBacco
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Hardee Power Partners Limited
Hardee Power Station
Title V Air Operation Permit No. 0490015-016-AV
July – December 2013 Monitoring Report

Dear Mr. DiBacco:

Pursuant to the requirements of conditions RR1 and RR4 of Appendix RR, and Condition 15 of Appendix CAM, Hardee Power Partners Limited (HPPL) hereby submits the attached semi-annual monitoring report for the Hardee Power Station for the July – December 2013 monitoring period.

Please contact Sheldron Johnson at (863) 375-3266 ext. 227 if you have any questions regarding this information.

I certify that, based on the information and belief formed after reasonable inquiry, the statements and information in the documents are true, accurate, and complete.

Sincerely,

Tim Frost
Plant Manager

Enclosure

cc: Florida Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation
Title V Section
2600 Blair Stone Road, Mail Station # 5505
Tallahassee, Florida 32399-2400

6695 North County Road 663, Bowling Green, FL 33834-6817
Phone (863) 375-3266 Fax (863) 375-2092

Excursions (as defined in Table 1 of Appendix CAM) for the July – December 2013 reporting period:

CT1A (Emissions Unit 001):

Date: October 14, 2013, 23:37 – 23:44

Cause: Routine weekly fuel transfer from natural gas to distillate fuel oil.

Corrective Action: Unit was transferred back to natural gas and shut down.

CT1B (Emissions Unit 002):

None

CT2A (Emission Unit 003):

None

There were no incidents of monitor downtime for Emission Units -001, -002, or -003 during the July – December 2013 reporting period.

Deviations from Title V permit requirements during the July – December 2013 reporting period:

Condition A.15 of the Hardee Power Station's Title V permit requires annual emissions compliance testing during each federal fiscal year (October 1st - September 30th) in which a combustion turbine fired natural gas or fuel oil for more than 400 hours during the preceding federal fiscal year. In order to comply with this requirement, Hardee Power Partners (HPP) notified the FDEP of its intent to test unit CT-1B on June 12, 2013 while firing natural gas (letter attached). HPP subsequently notified the FDEP when the test date changed to June 11, 2013 (letter attached).

Before the aforementioned emissions compliance testing could be performed, a generator failure occurred that prevented Unit CT-1B from being tested. On September 23, 2013, HPP notified the FDEP that the generator was still undergoing repairs and that it would not be possible to test the unit prior to the end of the federal fiscal year (letter attached). Repairs have since been completed and the unit will be tested within the first 720 unit operating hours after resuming operations, as agreed upon with the FDEP.

HARDEE POWER PARTNERS LIMITED

Invenergy

Via Federal Express
May 6, 2013

Mr. Erin Anthony DiBacco
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Hardee Power Partners Limited (HPPL)
Hardee Power Station
Title V Air Operation Permit No. 0490015-016-AV
Annual Emissions and RATA Test Notifications

Dear Mr. DiBacco,

Pursuant to the requirements of Condition TR7a(9) of the above-referenced Title V permit and of 40 CFR 75.61.a(5), HPPL hereby provides notification of the current annual emissions compliance (gas fuel only) and CEMS RATA testing schedule for the Hardee Power Station:

- June 11, 2013: CT-1A Emissions compliance and RATA testing
- June 12, 2013: CT-1B Emissions compliance and RATA testing

Please note the following:

- Units CT-1A and CT-1B were not fired for 400 or more hours on distillate fuel oil during the most recent fiscal year (October 1, 2011 through September 30, 2012); therefore, HPPL is not required to perform an annual emissions compliance test on fuel oil this year, pursuant to Condition A.15 of the above-referenced Title V permit.
- Unit CT-2A was not fired for 400 hours or more on natural gas or distillate fuel oil during the most recent federal fiscal year (October 1, 2011 through September 30, 2012); therefore, HPPL is not required to perform an annual emissions compliance test on the unit this year, pursuant to Condition A.15 of the above-referenced Title V permit. Additionally, Unit CT-2A is equipped with a 40 CFR 75, Appendix E monitoring system (PEMS); therefore, annual RATA testing is not applicable to the unit.
- Unit CT-2B was not fired for 400 hours or more on natural gas or distillate fuel oil during the most recent federal fiscal year (October 1, 2011 through September 30, 2012); therefore, HPPL is not required to perform an annual emissions compliance test on the unit this year, pursuant to Condition A.15 of the above-referenced Title V permit. Additionally, because Unit CT-2B has not operated for any "QA operating quarters" (as defined by 40 CFR 75) since RATA testing was last conducted in the 3rd Quarter of 2012, RATA testing will not need to be conducted in 2013. However, as required by Part 75, RATA testing will be conducted by no later than 8 calendar quarters since the last test (by the 3rd Quarter of 2014).

Please contact Matt Drennan at (863) 375-3266 ext. 227 if you have any questions regarding this information.

Sincerely,

Tim Frost
Plant Manager

6695 North County Road 663, Bowling Green, FL 33834-6817
Phone (863) 375-3266 Fax (863) 375-2092

cc: USEPA – Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Ga. 30303-8960

HARDEE POWER PARTNERS LIMITED

Invenergy

Via Federal Express

May 24, 2013

USEPA – Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Ga. 30303-8960

Re: Hardee Power Partners Limited (HPPL)
Hardee Power Station
Title V Air Operation Permit No. 0490015-016-AV
Annual Emissions and RATA Test Notifications - Change of Schedule

To: USEAP – Region 4,

Pleased be advised that on May 6, 2013, Hardee Power Station made notification of Emissions Compliance and RATA testing for CT1A and CT1B. Our testing contractor has requested a schedule change. Please see the new schedule below:

Original Schedule

- June 11, 2013: CT-1A Emissions compliance and RATA testing
- June 12, 2013: CT-1B Emissions compliance and RATA testing

New Schedule

- June 11, 2013: CT-1A and CT1B Emissions compliance and RATA testing

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

Please contact Matt Drennan at (863) 375-3266 ext. 227 if you have any questions regarding this information.

Sincerely,

Tim Frost
Plant Manager

6695 North County Road 663, Bowling Green, FL 33834-6817
Phone (863) 375-3266 Fax (863) 375-2092

HARDEE POWER PARTNERS LIMITED

Invenergy

September 23, 2013
Via Electronic Mail

Mr. Max Grondahl
Environmental Specialist
Florida Dept. of Environmental Protection, Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

Re: Hardee Power Partners Limited
Hardee Power Station
Title V Permit No. 0490015-016-AV
Emissions Compliance Testing – Unit CT-1B

Dear Max:

The Hardee Power Station's (HPS') originally notified the FDEP that emissions compliance and RATA testing were scheduled to be performed on Unit CT-1B (Emission Unit 002) on June 11, 2013. However, before testing commenced, a generator failure occurred which has since prevented the unit from running.

Condition A.15 of the above-referenced Title V permit requires annual compliance tests to be conducted on CT-1B during each federal fiscal year (October 1st – September 30th) if the unit is fired for more than 400 hours in the preceding federal fiscal year. Unfortunately, due to the unit outage, which is still ongoing, it will not be possible to test CT-1B prior to the end of the federal fiscal year. Currently, generator repairs are not expected to be completed before December 2013. Once repairs have been completed and the unit is returned to service, HPS will contact you regarding the upcoming testing schedule.

We appreciate your assistance with this matter. If you have any questions regarding this information, please contact Matt Drennan at (863) 375-3266, ext. 227.

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

Sincerely,

Tim Frost
Plant Manager

Cc: Ilia Balcom – FDEP – Tampa
Matt Drennan – HPS
Frank Sarduy – Southshore Environmental

6695 North County Road 663, Bowling Green, FL 33834-6817
Phone (863) 375-4711 Fax (863) 375-2092

ATTACHMENT H

REQUESTED CHANGES TO CURRENT TITLE V AIR OPERATION PERMIT

ATTACHMENT H

HARDEE POWER STATION
REQUESTED CHANGES TO CURRENT TITLE V PERMIT

The following general and specific changes to the HPS Title V Permit Renewal No. 0490015-016-AV are requested:

1. Condition FW9

Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-Line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rule 62-213.205, F.A.C.]

Change the first sentence to read "The annual Title V emissions fees are due by April 1st of each year." Also, edit language in RR1 and RR6 of Appendix RR of the permit to reflect the latest version of Rule 62-213.205, F.A.C.

2. Condition B.16

Tests Prior to Permit Renewal. During the federal fiscal year (October 1st to September 30th) prior to renewing the air operation permit, the permittee shall also conduct individual performance tests for VOC emissions while firing natural gas and low sulfur distillate oil. [Rule 62-297.310(7)(a)3., F.A.C.]

Consistent with Rule 62-297.310(7)(a)3, F.A.C., testing of VOC is only required once during the 5-year period prior to permit renewal. Propose to revise the first sentence of the condition to read "Prior to renewing the air operation permit, the permittee shall also conduct individual performance tests for VOC emissions while firing natural gas and low sulfur distillate oil."

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.

Hardee Power Station Plant name	**Florida** State	**50949** ORIS/Plant Code

STEP 2
Enter the unit ID# for every Acid Rain unit at the Acid Rain source in column "a."

If unit a SO_2 Opt-in unit, enter "yes" in column "b".

For new units or SO_2 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
CT2B	**No**	**Yes**	**N/A**	**N/A**
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

Hardee Power Station

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 SO_2 Opt-in unit, a monitoring plan for each SO_2 Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO_2 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,

Hardee Power Station

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 72.7or 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 SO_2 Opt-in units only.

In column "f" enter the unit ID# for every SO_2 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

Hardee Power Station Plant Name (from STEP 1)

STEP 5

For SO_2 Opt-in units only.

(Not required for SO_2 Opt-in renewal applications.)

In column "i" enter the unit ID# for every SO_2 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 SO_2 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 SO_2 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."

Signature	Date

STEP 7

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

Ralph E. Randall Name	**Regional Plant Director** Title
Hardee Power Partners Limited Owner Company Name	
(863) 375-3266 Phone	**rrandall@invenergyllc.com** E-mail address
Signature Ralph E Randall	Date 5-15-14

ATTACHMENT J

CAIR PART

Clean Air Interstate Rule (CAIR) Part

For more information, see instructions and refer to 40 CFR 96.121, 96.122, 96.221, 96.222, 96.321 and 96.322; and Rule 62-296.470, F.A.C.

This submission is: ☐ New ☐ Revised ■ Renewal

STEP 1

Identify the source by plant name and ORIS or EIA plant code

Plant Name: **Hardee Power Station**	State: **Florida**	ORIS or EIA Plant Code: **50949**

STEP 2

In column "a" enter the unit ID# for every CAIR unit at the CAIR source.

In columns "b," "c," and "d," indicate to which CAIR program(s) each unit is subject by placing an "X" in the column(s).

For new units, enter the requested information in columns "e" and "f.

a	b	c	d	e	f
Unit ID#	Unit will hold nitrogen oxides (NO_X) allowances in accordance with 40 CFR 96.106(c)(1)	Unit will hold sulfur dioxide (SO_2) allowances in accordance with 40 CFR 96.206(c)(1)	Unit will hold NO_X Ozone Season allowances in accordance with 40 CFR 96.306(c)(1)	New Units Expected Commence Commercial Operation Date	New Units Expected Monitor Certification Deadline
CT1A	**X**	**X**	**X**	**N/A**	**N/A**
CT1B	**X**	**X**	**X**	**N/A**	**N/A**
CT2A	**X**	**X**	**X**	**N/A**	**N/A**
CT2B	**X**	**X**	**X**	**N/A**	**N/A**

Hardee Power Station
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.

Hardee Power Station
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 SO_2 TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR SO_2 source and each CAIR SO_2 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 SO_2 source and each CAIR SO_2 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 SO_2 source and each SO_2 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 SO_2 source with the following CAIR SO_2 Emission Requirements.

SO_2 Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO_2 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 SO_2 units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
(2) A CAIR SO_2 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 SO_2 allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO_2 Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.
(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 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 SO_2 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 SO_2 allowance to or from a CAIR SO_2 unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO_2 unit.

Excess Emissions Requirements.

If a CAIR SO_2 source emits SO_2 during any control period in excess of the CAIR SO_2 emissions limitation, then:
(1) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 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.

STEP 3, Continued

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO_2 source and each CAIR SO_2 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 SO_2 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 SO_2 Trading Program.

(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR SO_2 Trading Program or to demonstrate compliance with the requirements of the CAIR SO_2 Trading Program.

(2) The CAIR designated representative of a CAIR SO_2 source and each CAIR SO_2 unit at the source shall submit the reports required under the CAIR SO_2 Trading Program, including those under 40 CFR Part 96, Subpart HHH.

Liability.

(1) Each CAIR SO_2 source and each CAIR SO_2 unit shall meet the requirements of the CAIR SO_2 Trading Program.

(2) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 source or the CAIR designated representative of a CAIR SO_2 source shall also apply to the owners and operators of such source and of the CAIR SO_2 units at the source.

(3) Any provision of the CAIR SO_2 Trading Program that applies to a CAIR SO_2 unit or the CAIR designated representative of a CAIR SO_2 unit shall also apply to the owners and operators of such unit.

Effect on Other Authorities.

No provision of the CAIR SO_2 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 SO_2 source or CAIR SO_2 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, 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.

Hardee Power Station
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

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

Ralph E. Randall Name	**Regional Plant Director** Title
Hardee Power Partners Limited Owner Company Name	
(863) 375-3266 Phone	**rrandall@invenergyllc.com** E-mail address
Signature Ralph E Randall	Date 5-15-14

ATTACHMENT K

FUEL SPECIFICATIONS

ATTACHMENT K

HARDEE POWER STATION
FUEL ANALYSES OR SPECIFICATIONS

A. No. 2 Fuel Oil

Specification	Units	Value
Heat content (nominal)	BTU/gal (HHV)	138,000
Sulfur content	Weight percent	0.05
Ash content	Weight percent	0.1

B. Natural Gas (Typical Composition)

Component	Mole Percent (by volume)
Gas Composition	
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
Other Characteristics	
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/ft^3 = British thermal units per cubic foot.
psia = pounds per square inch absolute.
gr/100 scf = grains per 100 standard cubic foot.

ATTACHMENT L

PROCEDURES FOR STARTUP AND SHUTDOWN

ATTACHMENT L

HARDEE POWER STATION
PROCEDURES FOR STARTUP AND SHUTDOWN

A. STARTUP PROCEDURES

Unit is "walked down" by a roving operator to ensure that all systems are in a normal and safe-to-start-up condition.

Control room operator checks for the type and that start-up functions are in the desired mode.

Control room operator initiates a start on the unit from the Bailey Distributed Control and Information System (DCIS).

Roving operator then verifies the following sequence of automatic events:

- Turbine starting motor engages, which will take the combustion turbine (CT) to approximately 800 revolutions per minute (rpm) for a purge cycle, followed by a decrease to 360 rpm for fuel and ignitor operations.

- All logical permissives are met, the fuel/air ratio is correct, and the combustors are ignited as indicated by all four flame sensors seeing flame.

- Ignitors retract at approximately 1,200 rpm.

- Starting motor assists in the acceleration of the CT to 60-percent (2,160) rpm and then disengages.

- CT continues to accelerate under its own power toward 100-percent (3,600) rpm for synchronization of the generator to the grid. The generator field is flashed and the generator excited at 95-percent rpm.

- The generator has synchronized to the grid, the generator breaker closes, and the generator output is immediately increased to 5 megawatts (MW).

- At approximately 18 megawatts CT output, the water injection system will start up to control nitrogen oxides (NO_x) by injecting demineralized water into the combustors.

If combined cycle operation is desired, the control room operator will open the diverter dampers to apply heat to the heat recovery steam generator (HRSG) and raise CT megawatt output to the level required to generate sufficient steam to roll the steam turbine.

ATTACHMENT L

HARDEE POWER STATION
PROCEDURES FOR STARTUP AND SHUTDOWN

B. SHUTDOWN PROCEDURES

During combined cycle operations, the control room operator decreases load to the point where the diverter damper can be closed, uncoupling the CT exhaust from the HRSG.

To shut down the CT, the control room operator will select "STOP" on the DCIS, and the CT will ramp down at a maximum ramp rate of 6 MW per minute to -1.5 MW. At this point, the generator breaker is opened and the CT begins a fired shutdown for approximately 60 seconds.

When the fired shutdown is complete, the fuel valve closes, and the CT coasts down in speed until it goes on cool down at approximately 45 rpm.

The roving operator will do a post-run "walk down" to check condition of the systems and ensure that the ignitors have returned to the start-up position.

The CT will remain on cool down until the conditions of 14 hours elapsed time since shutdown and highest wheel space temperature has cooled to 150 degrees or less are met. At this point, the roving operator will take the CT off cooldown and rpm will decrease to zero.

ATTACHMENT M

COMPLIANCE ASSURANCE MONITORING

ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)

The following Compliance Assurance Monitoring (CAM) Plan is applicable to CT-1A, CT-1B, and CT-2A.

Table 1. Monitoring Approach

Criteria	Data
I. General Criteria	
A. Indicator	Water-to-fuel ratio.
B. Measurement Approach	Continuous Monitoring System measuring water injection rate, fuel consumption, and water-to-fuel ratio.
C. Indicator Range	An excursion is defined as any 4 consecutive 1-minute averages that the water-to-fuel ratio falls below the level calculated by the Mark 6e based on algorithms programmed into the system to account for varying ambient conditions relevant to proper control. These calculations incorporate the water injection curves shown in figures 1 - 6 (typical target values for different load percentages are shown in Table 2), below. If there is a problem with fuel or water flow that causes the actual ratio to fall below the target during any 4 consecutive 1-minute averages, an alarm notifies the control room staff of the problem. Since the data is monitored in 4 consecutive 1-minute averages and the compliance standard is based on 1-hour averages, the alarms allow the operating staff to investigate the cause and take corrective action prior to having a non-compliant situation.
II. Performance Criteria	
A. Data Representativeness	The Mark 6e combustion turbine control system continuously monitors the fuel flow rate and sends a signal to the water flow control valve to adjust the flow to meet the target ratio. The target ratio is calculated by the Mark 6e based on algorithms programmed into the system to account for varying ambient conditions relevant to proper control.
B. Verification of Operational Status	Annual compliance testing; and, reestablishment of the water-to-fuel ratio, if indicated by a failed compliance test.
C. QA/QC Practices and Criteria	Operate and maintain the Mark 6e combustion turbine control system according to manufacturer's specifications. All metering equipment, including transmitters, are calibrated annually and meet or exceed the minimum regulatory requirement of 5% accuracy.
D. Monitoring Frequency	Continuous

ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)

Table 2. Monitoring Approach (continued)

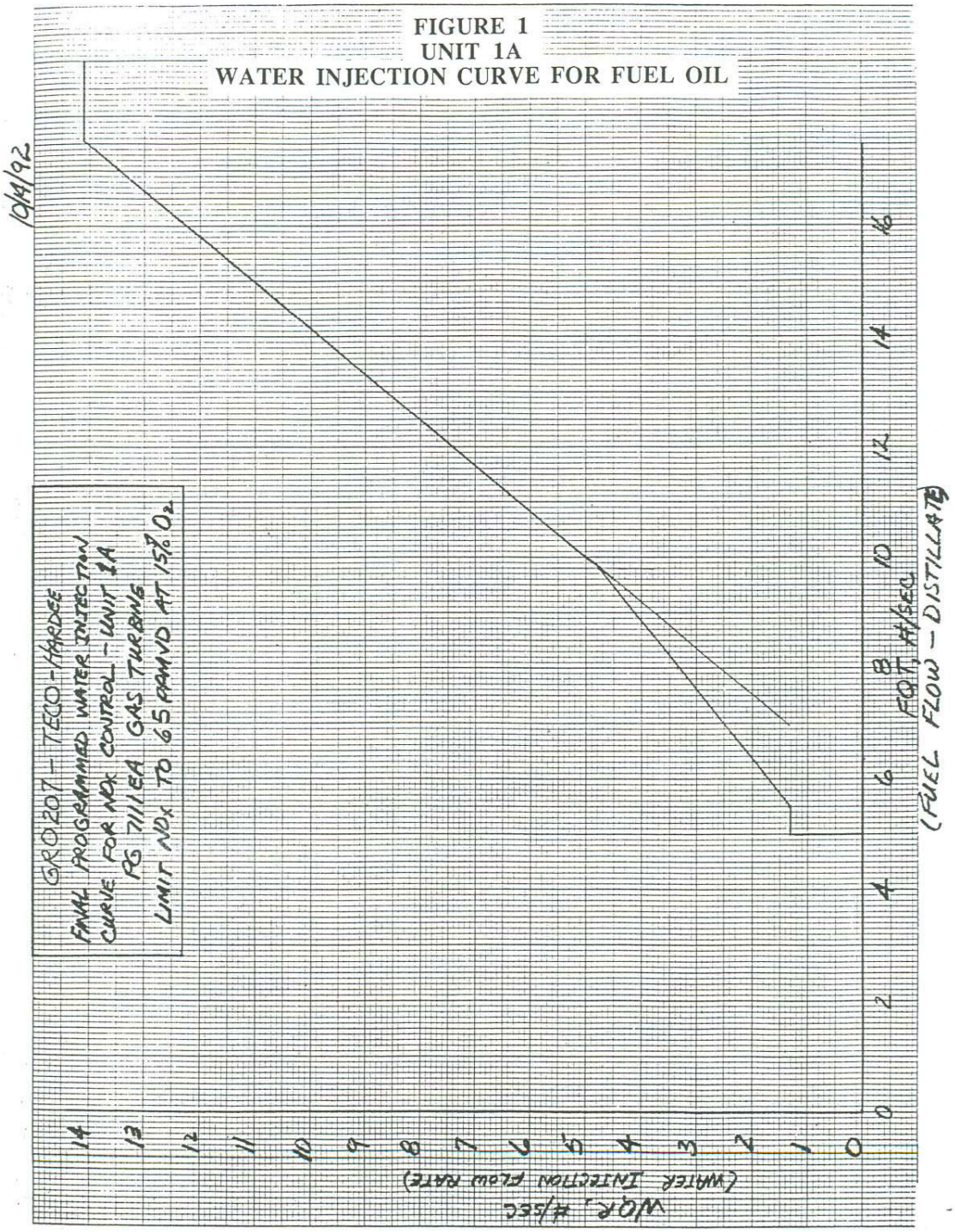
Criteria	Data
E. Data Collection Procedures	The Mark 6e combustion turbine control system continuously monitors the fuel flow rate and sends a signal to the water flow control valve to adjust the flow to meet the target ratio. The target ratio is calculated by the Mark IV based on algorithms programmed into the system to account for varying ambient conditions relevant to proper control.
D. Averaging Period	1 minute.

Table 3. Typical Target Values for Water-to-Fuel Ratio

Load (percent)	Water-to-Fuel Ratio Target Value When Firing Natural Gas			Water-to-Fuel Ratio Target Value When Firing Distillate Fuel Oil		
	CT-1A	CT-1B	CT-2A	CT-1A	CT-1B	CT-2A
50	0.45	0.43	0.31	0.55	0.36	0.37
75	0.58	0.56	0.50	0.60	0.40	0.40
90	0.66	0.64	0.59	0.65	0.52	0.55
100	0.71	0.69	0.69	0.69	0.63	0.68

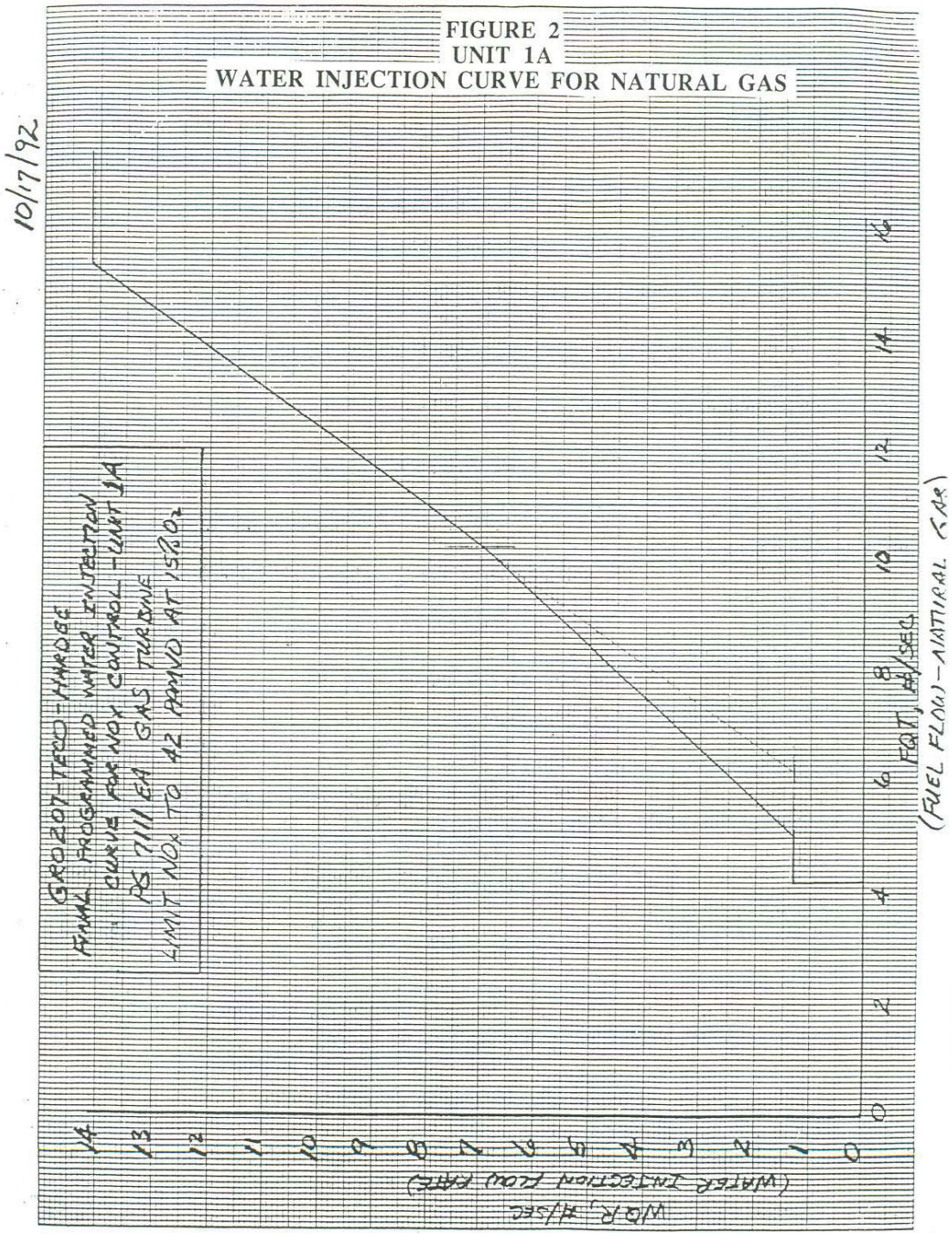
ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



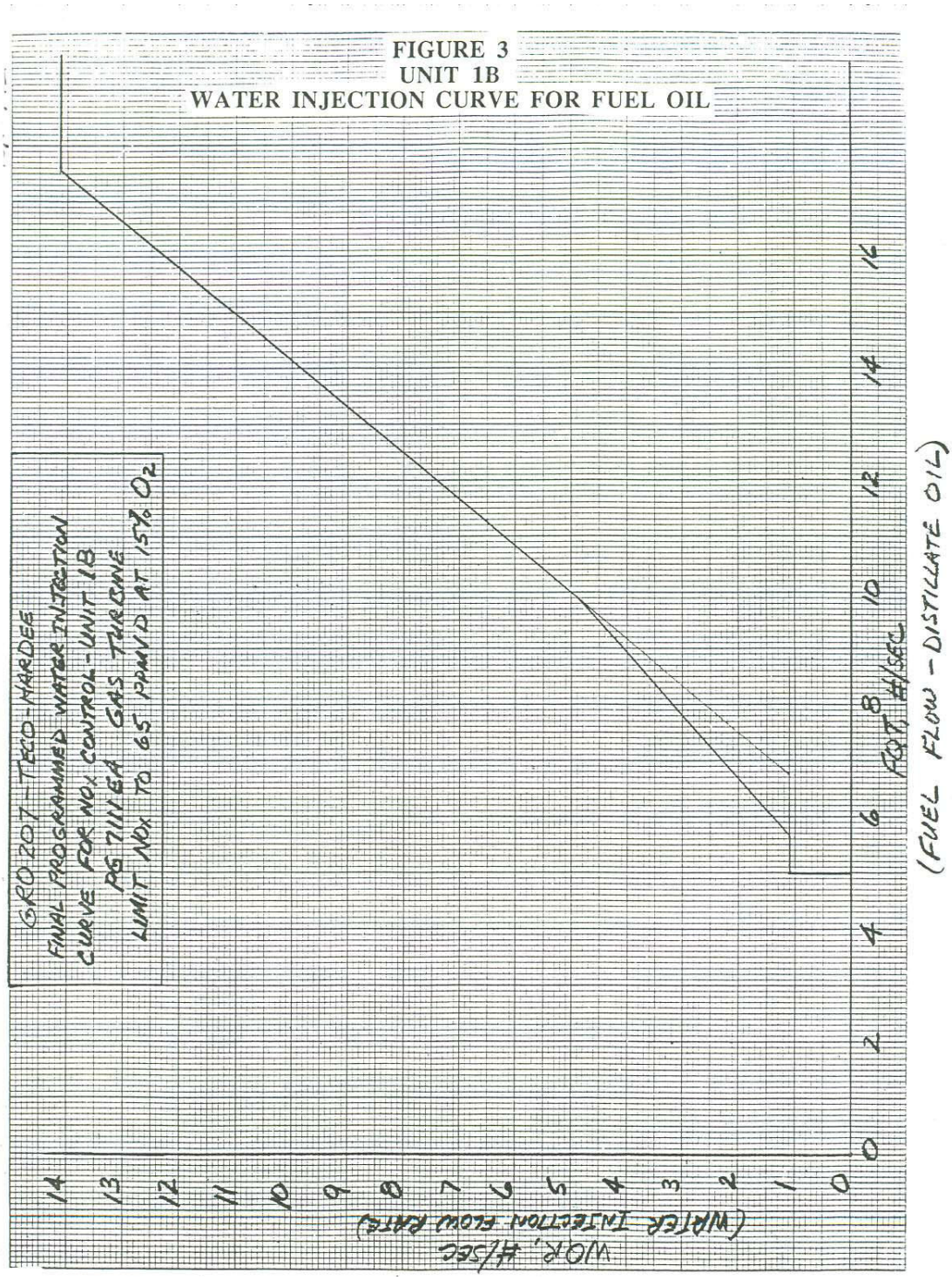
ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



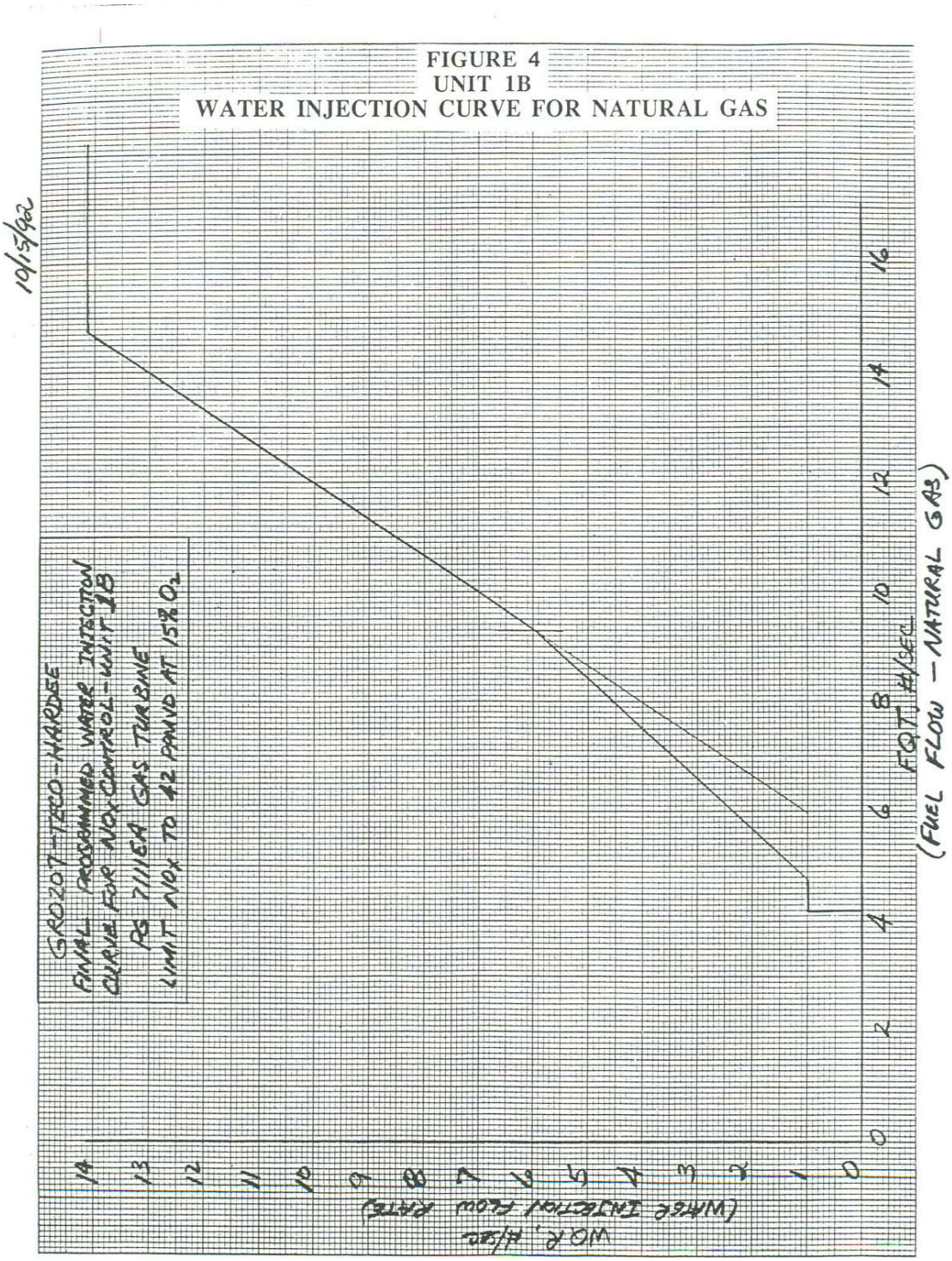
ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



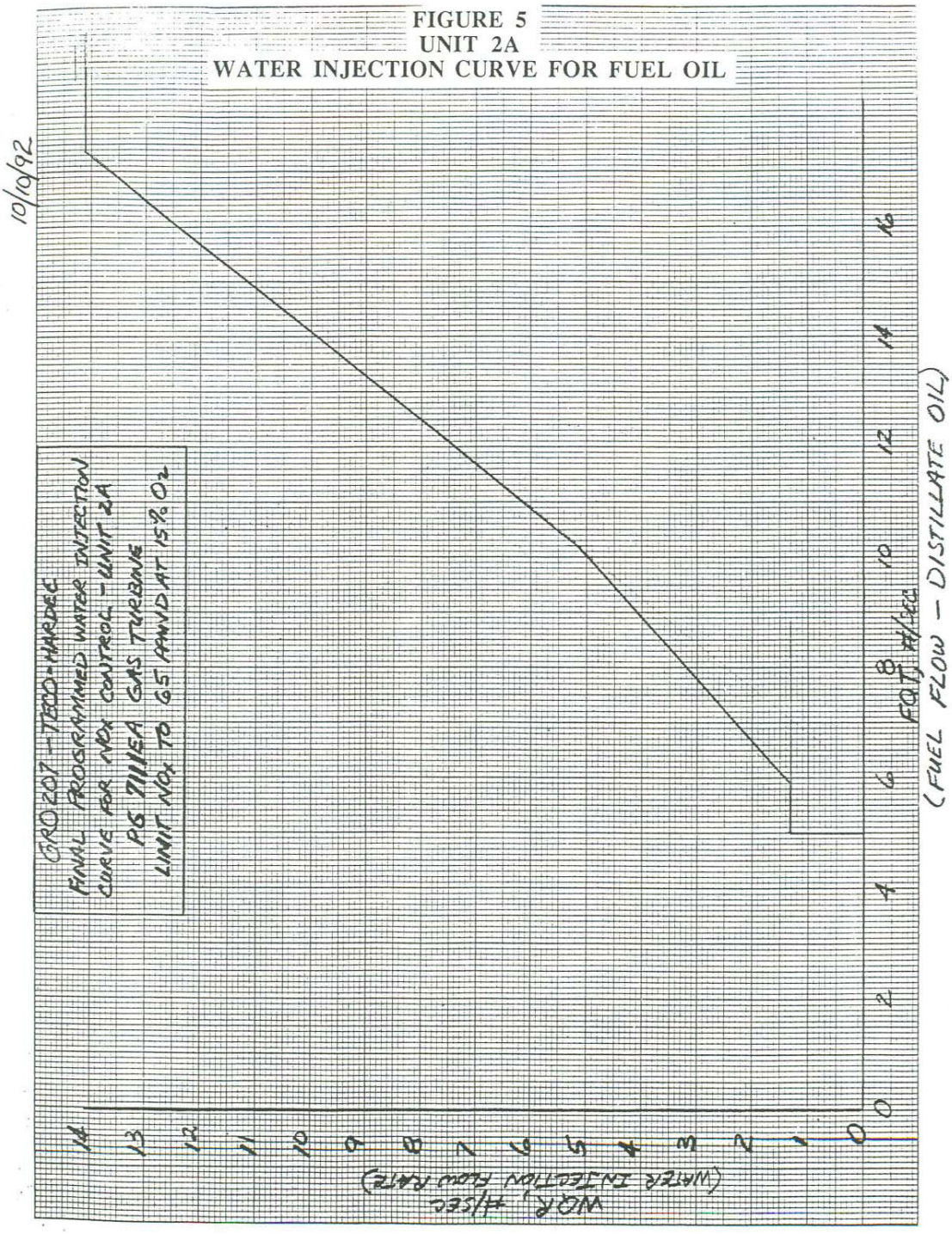
ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



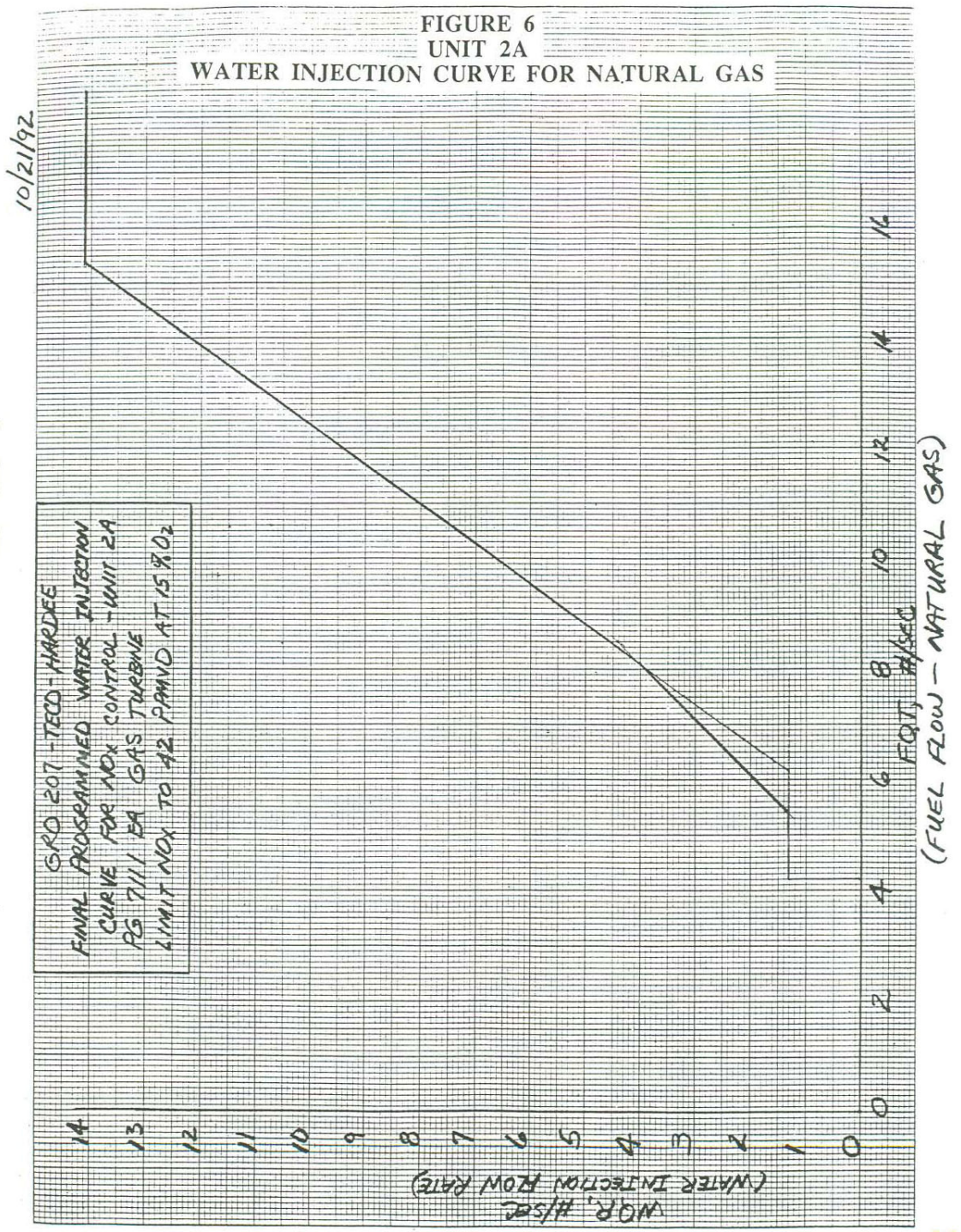
ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



ATTACHMENT M

HARDEE POWER STATION
SAMPLE CURVE
COMPLIANCE ASSURANCE MONITORING
(Note: May not reflect current water injection curves.)



ATTACHMENT N

ALTERNATE METHODS OF OPERATION

ATTACHMENT N

HARDEE POWER STATION
ALTERNATIVE METHODS OF OPERATION

Method Number	Fuel Type	Maximum Fuel Sulfur Content	Heat Input Range, LHV (MMBtu/hr)	Maximum Operating Hours		
				hr/day	day/wk	hr/yr
A. CT-1A, CT-1B, CT-2A (EUs 001, 002, and 003) – per CT						
1	Natural gas	2.0 gr s/100 ft^3	0 to 1,268.4*	24	7	8,760
2	No. 2 fuel oil	0.5 weight %	0 to 1,312.3*	24	7	8,760
B. CT-2B (EU 005)						
1	Natural gas	2.0 gr s/100 ft^3	0 to 950†	24	7	8,760
2	No. 2 fuel oil	0.5 weight %	0 to 1,060†	24	7	8,760

*Heat input rates are at CT base load and 32°F ambient temperature operating conditions.
†Heat input rates are at CT base load and 59°F ambient temperature operating conditions.