### Florida Department of **Environmental Protection**

TO:

Joseph Kahn, Division of Air Resource Management

THROUGH:

Trina Vielhauer, Bureau of Air Regulation Jeff Koerner, New Source Review Section

FROM:

Christy DeVore, New Source Review Section

DATE:

12/8/09

SUBJECT:

Title V Air Operation Permit No. 0490015-011-AV

Revisions to Underlying Air Construction Permit No. 0490015-012-AC (PSD-FL-140C)

Hardee Power Partners Limited

Hardee Power Station

Final Title V Air Operation Permit Renewal

The final permit for this project is attached for your approval and signature.

The attached Final Determination identifies issuance of the final Title V air operation permit, revisions to the underlying air construction permit and summarizes the publication process. There were no comments received from the applicant, public, or EPA in response to the proposed permit.

I recommend your approval of the attached final permit for this project.

Attachments

#### **NOTICE OF FINAL PERMIT**

In the Matter of an Application for Permit by:

Hardee Power Partners Limited 6695 North County Road 663 Bowling Green, FL 33834-6817

Responsible Official:

Mr. Ralph E. Randall, Plant Manager

Permit No. 0490015-011-AV and 0490015-012-AC (PSD-FL-140C)
Hardee Power Station
Title V Air Operation Permit Renewal
Revisions to Underlying Air Construction Permit
Hardee County

Enclosed is the final permit package to renew the Title V air operation permit and revise several underlying testing and monitoring conditions in underlying air construction Permit No. PSD-FL-140 for Hardee Power Station. The existing facility is located in Hardee County at 6695 North County Road 663, Bowling Green, Florida. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Trina Vielhauer, Chief Bureau of Air Regulation

TLV/jh/cd

#### CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final Permit and Final Determination), or a link to these documents available electronically on a publicly accessible server, was sent by electronic mail with received receipt requested to the persons listed below:

Mr. Ralph E. Randall, Hardee Power Partners Limited: rrandall@invenergyllc.com

Mr. Thomas W. Davis, P.E., Environmental Consulting & Technology, Inc.: tdavis@ectinc.com

Ms. Cindy Zhang-Torres, P.E., DEP Southwest District Office: cindy.zhang-torres@dep.state.fl.us

Mr. Mike Halpin, DEP Siting Office: mike.halpin@dep.state.fl.us

Ms. Heather Abrams, U.S. EPA Region 4: abrams.heather@epa.gov

Ms. Katy Forney, U.S. EPA Region 4: forney.kathleen@epamail.epa.gov

Ms. Ana Oquendo, U.S. EPA Region 4: oquendo.ana@epamail.epa.gov

Ms. Barbara Friday, DEP BAR (for posting with U.S. EPA Region 4): barbara.friday@dep.state.fl.us

Ms. Victoria Gibson, DEP BAR Reading File: victoria.gibson@dep.state.fl.us

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby

acknowledged.

Clerk)

(Date)

#### FINAL DETERMINATION

#### **PERMITTEE**

Hardee Power Partners Limited 6695 North County Road 663 Bowling Green, FL 33834-6817

#### PERMITTING AUTHORITY

Florida Department of Environmental Protection (Department) Division of Air Resource Management Bureau of Air Regulation, Title V Section 2600 Blair Stone Road, MS #5505 Tallahassee, Florida 32399-2400

#### **PROJECT**

Permit No. 0490015-001-AV and 0490015-012-AC (PSD-FL-140C) Hardee Power Station

The purpose of this project is to renew the Title V air operation permit and revise the underlying air construction permit for the above referenced facility.

#### NOTICE AND PUBLICATION

The Department issued the draft/proposed Title V Air Operation Permit Renewal and revisions in the underlying Air Construction Permit package on October 19, 2009. The applicant published the Public Notice of Intent to Issue a Title V Air Operation Permit Renewal and revisions in the underlying Air Construction Permit in the Herald-Advocate on October 29, 2009. The Department received the proof of publication on November 5, 2009.

#### **COMMENTS**

No comments on the proposed permit were made by the EPA Region 4 Office.

#### **CONCLUSION**

The final action of the Department is to issue the permit with no changes.

#### STATEMENT OF BASIS

# Title V Air Operation Permit Renewal Revisions to Underlying Air Construction Permit Permit Nos. 0490015-011-AV and 0490015-012-AC (PSD-FL-140C)

#### **APPLICANT**

The applicant for this project is Hardee Power Partners Limited, a subsidiary of Invenergy, LLC. The applicant's responsible official and mailing address are: Ralph E. Randall, Plant Manager, Hardee Power Partners Limited, Hardee Power Station, 6695 North County Road 663, Bowling Green, Florida 33834-6817.

#### FACILITY DESCRIPTION

The Hardee Power Partners Limited operates the Hardee Power Station, which is located in Hardee County at 6695 North County Road 663 in Bowling Green, Florida. The existing power plant has a nominal generating capacity of 376 megawatt (MW) and consists of the following equipment.

- Units CT-1A (EU-001) and CT-1B (EU-002) comprise a "two-on-one" combined cycle system. Each unit is a General Electric Model No. PG-7111EA combustion turbine with a nominal capacity of 75 MW. The exhaust gas from each combustion turbine passes through an unfired heat recovery steam generator (HRSG) to produce steam, which is delivered to a common steam-electrical generator set rated at a nominal capacity of 70 MW. Each combustion turbine fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. Each unit is equipped with water injection to reduce nitrogen oxides (NO<sub>X</sub>) emissions. Each unit is also equipped with a bypass stack to bypass the HRSG if necessary.
- Unit CT-2A (EU-003) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7111EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. It is equipped with water injection to reduce NO<sub>X</sub> emissions.
- Unit CT-2B (EU-005) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7121EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. The unit incorporates dry low-NO<sub>X</sub> combustors for firing natural gas to prevent the formation of NO<sub>X</sub> emissions. It is equipped with water injection to reduce NO<sub>X</sub> emissions when firing distillate oil. The unit is also equipped with a continuous emissions monitoring system (CEMS) to determine continuous compliance with the NO<sub>X</sub> standards.

The plant includes a 4.4 million gallon storage tank (EU-004) for distillate oil as well as other miscellaneous unregulated and insignificant activities.

#### PROJECT DESCRIPTION

The purpose of this project is to renew Title V Air Operation Permit No. 0490015-005-AV for this facility. The project also includes a concurrent air construction permit revision to change underlying conditions related to testing and monitoring.

#### PROCESSING SCHEDULE AND RELATED DOCUMENTS

05/20/09: Department received application to renew the Title V air operation
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07/15/09: Department requested additional information.

09/11/09: Department received additional information completing the application.

10/19/09: Department issued Draft Title V air operation permit renewal and Draft Revisions to air construction permit.

10/29/09: Applicant published the Public Notice.

#### PRIMARY REGULATORY REQUIREMENTS

<u>Title III</u>: The facility is identified as a major source of hazardous air pollutants (HAP).

#### STATEMENT OF BASIS

Title IV: Combustion Turbine CT-2B is subject to the acid rain provisions of the Clean Air Act.

<u>Title V</u>: The facility is a Title V major source of air pollution in accordance with Chapter 62-213, Florida Administrative Code (F.A.C.).

<u>PSD</u>: The facility is a major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality. Combustion turbines CT-1A, CT-1B and CT-2A were constructed in accordance with Permit No. PSD-FL-140. Combustion turbine CT-2B was constructed in accordance with Permit No. PSD-FL-140A.

NSPS: All combustion turbines are subject to the New Source Performance Standards (NSPS) of Subpart A (General Provisions) and Subpart GG (Stationary Gas Turbines) in Part 60, Title 40 of the Code of Federal Regulations (CFR). Subpart GG regulates NO<sub>X</sub> and sulfur dioxide (SO<sub>2</sub>) emissions. These federal regulations are adopted in Rule 62-204.800, F.A.C.

<u>CAIR</u>: All combustions turbines are subject to the Clean Air Interstate Rule (CAIR) set forth in Rule 62-296.470, F.A.C.

<u>Siting</u>: The facility was originally certified pursuant to the Department's power plant site certification provisions pursuant to Chapter 62-17, F.A.C. The site certification number is PA 89-25.

 $\underline{\text{CAM}}$ : A Compliance Assurance Monitoring (CAM) plan is required for combustion turbines CT-1A, CT-1B and CT-2A to identify proper operation of the water injection systems used to reduce NO<sub>X</sub> emissions. A CAM plan is not required for combustion turbine CT-2B since the unit is equipped with a CEMS to determine continuous compliance with the NO<sub>X</sub> standards.

#### **PROJECT REVIEW**

The renewal permit reflects the new Title V air operation permit formats. In addition, the permittee requested several changes to the previous Title V air operation permit. The following summarizes the request, the Department's response and identifies any changes made to underlying construction permit conditions. The permit condition numbering refers to previous Title V air operation Permit No. 0490015-005-AV, which is being renewed.

#### **Clarifications and Corrections**

- 1. Condition A.8: For Units CT-1A, CT-1B and CT-2A, clarify that volatile organic compounds (VOC) are measured and reported in terms of methane.
  - Response: This is consistent with information related to General Electric equipment. The clarification was added to the Title V condition.
- 2. Condition A.9: For Units CT-1A, CT-1B and CT-2A, clarify that visible emissions serve as a surrogate for particulate matter.
  - Response: A clarifying permitting note was added to the Title V condition.
- 3. Condition B.3: In the condition related to hours of operation, correct as follows, "Operation below 50% of baseline baseload operation shall be limited to two (2) hours per unit cycle (breaker open to breaker closed)."
  - Response: Baseload is the proper term and the change was made to the Title V condition.
- 4. Condition B.17: Identify that the CEMS is an option for reporting NO<sub>X</sub> emissions in excess of the NSPS Subpart GG standard.

Response: EPA revised the NSPS Subpart GG provisions to clarify that a CEMS may be used to determine and report NO<sub>X</sub> emissions in excess of the NSPS Subpart GG standard. Therefore, paragraphs (a) and (b) of this condition were removed because these requirements are now included in Appendix GG with the NSPS Subpart GG provisions. Paragraph (c) regarding the correction of NO<sub>X</sub> emissions to ISO conditions when

requested by the Department was moved to the "NO<sub>X</sub> CEMS" condition under "Monitoring Requirements" subheading. The Department notes that the EPA revisions to NSPS Subpart GG also relaxed many of the fuel sulfur monitoring provisions and that the Custom Fuel Monitoring Plan may be unnecessary. The Department revised the permit to allow the permittee to comply with the NSPS Subpart GG sulfur monitoring provisions by following the revised requirements in Appendix GG or by continuing to follow the custom fuel sulfur monitoring plan, which was moved to Appendix CFM of the permit. The Title V condition was revised as described above and no change to any underlying air construction permits was necessary.

#### Changes Requiring Revised Air Construction Permits (PSD-FL-140 and PSD-FL-140A)

The applicant also requested changes that would require a revised air construction permit. The following summarizes the request and the Department's response. See the Technical Evaluation for Project No. 0490015-012-AC for the Department's rationale for approving or rejecting the request as well as any revised permit conditions.

- 1. Conditions A.12 and B.19: For any combustion turbine that is tested at less than 90% of the maximum heat input rate, these conditions limit the unit to 110% of this rate except for 15 consecutive days to conduct compliance testing to regain the full capacity. Replace "consecutive days" with "operating days".
  - Response: This requirement is from Rule 62-297.310(2), F.A.C. No change was made.
- 2. Condition A.18 PM Testing: For Units CT-1A, CT-1B and CT-2A, remove the requirement to test particulate matter (PM) on fuel oil.
  - Response: Due to the high sulfur level, no change was made.
- 3. Condition A. 18 VOC Testing: For Units 1A, 1B and 2A, remove the requirement to test VOC emissions unless the unit fails the CO test. Add Methods 18 and 25 for testing VOC emissions.
  - Response: Project No. 0490015-012-AC revised underlying Condition 8 in Permit No. PSD-FL-140 as requested and the Title V condition was revised accordingly.
- 4. Condition A.18 Test Frequency: For Units CT-1A, CT-1B and CT-2A, the applicant requests clarification that annual compliance tests are only required to be conducted for each fuel fired for more than 400 hours.
  - Response: Project No. 0490015-012-AC revised underlying Condition 8 in Permit No. PSD-FL-140 as requested and the Title V condition was revised accordingly.
- 5. Condition B.14: The permittee requests the following clarification to paragraph (b) in this condition, "Although recorded, emissions during periods of startup, shutdown and malfunction are <u>not</u> subject to the excess emission conditions specified in this permit."
  - Response: This requirement comes from underlying Condition 35 in Permit No. PSD-FL-140A. The Department revised the condition by deleting the sentence. The Title V condition revised accordingly.
- 6. Condition B.19: The applicant requests the following change to the 4<sup>th</sup> paragraph as follows, "However, subsequent operation is limited by adjusting the entire heat input vs. ambient temperature curve downward by an increment equal to the <u>percentage</u> difference between the maximum permitted heat input (corrected for ambient temperature) and 110 percent of the value reached during the test until a new test is conducted."
  - Response: This requirement is from underlying Condition 22 in Permit No. PSD-FL-140A. The Department revised the condition and the Title V condition was revised accordingly.
- 7. Condition B.26: The applicant requests that test frequency requirements for Unit CT-2B be similar to Units CT-1A, CT-1B and CT-2A.
  - Response: This requirement is from underlying Condition 30 in Permit No. PSD-FL-140A. The Department revised the condition 30 to:

#### STATEMENT OF BASIS

- Require CO and visible emissions testing on natural gas each year to ensure that the unit remains in tune.
- Require CO and visible emissions testing on distillate oil if distillate oil is fired for more than 400 hours during the preceding federal fiscal year.
- State that compliance shall be demonstrated by NO<sub>X</sub> CEMS. Remove NO<sub>X</sub> from the list of pollutants to be tested annually since compliance is continuously demonstrated by CEMS. Add the following, "When requested by the Department, the permittee shall determine the NO<sub>X</sub> mass emission rate (lb/hour) from CEMS data to demonstrate compliance with the corresponding permit limit."

The Title V condition was revised accordingly.

8. Conditions B.33 and C.17: The applicant requests the following change, "In no case shall excess emissions from startup, shutdown and malfunction exceed two hours <u>per unit cycle (breaker open to breaker closed) in any 24-hour period</u>." This will capture a full cycle of operation from startup through shutdown yet allow multiple startups during a day.

Response: This requirement is based on Condition 21 in Permit No. PSD-FL-140A. The Department revised the condition as follows, "In no case shall excess emissions from startup, shutdown and malfunction exceed two hours in any <u>calendar day 24-hour period</u>." The Title V condition was revised accordingly.

#### CONCLUSION

This project renews Title V air operation permit No. 0490015-005-AV, which was effective on January 1, 2005. This Title V air operation permit renewal is issued under the provisions of Chapter 403, Florida Statues (F.S.), and Chapters 62-4, 62-210, 62-213 and 62-214, F.A.C.



### Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

#### **PERMITTEE**

Hardee Power Partners A Subsidiary of Invenergy, LLC 6695 North County Road 663 Bowling Green, Florida 33834

Authorized Representative: Mr. Ralph E. Randall, Plant Manager Air Permit No. 0490015-012-AC PSD-FL-140C Air Construction Permit Revision Testing and Monitoring Changes Hardee Power Station Hardee County, Florida

#### **PROJECT**

This is the final air construction permit, which revises Permit No. PSD-FL-140 for combustion turbine Units CT-1A, CT-1B and CT-2A and Permit No. PSD-FL-140A for combustion turbine Unit CT-2B. The revised permit conditions are for testing and monitoring requirements. For combustion turbine Units CT-1A, CT-1B and CT-2A, the permittee also agreed to reduce the maximum sulfur content of distillate oil from 0.5% to 0.05% by weight. The existing plant is a power plant categorized under Standard Industrial Classification No. 4911. The existing plant is located in Hardee County at 6695 North County Road 663 in Bowling Green, Florida. The map coordinates are: UTM Zone 17, 405.02 km East and 3057.18 km North; Latitude 27° 38'13" North, and Longitude 81°57'45" West.

This final permit is organized into the following sections: Section 1 (General Information) and Section 2 (Permit Revisions). As noted in the Final Determination provided with this final permit, only minor changes and clarifications were made to the find permit.

#### STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality. A copy of this permit modification shall be filed with the referenced permit and shall become part of the permit.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

Joseph Kahn, Director

Division of Air Resource Management

(Date)

#### **CERTIFICATE OF SERVICE**

Mr. Ralph E. Randall, Hardee Power Partners Limited: rrandall@invenergyllc.com

Mr. Thomas W. Davis, P.E., Environmental Consulting & Technology, Inc.: tdavis@ectinc.com

Ms. Cindy Zhang-Torres, P.E., DEP Southwest District Office: cindy.zhang-torres@dep.state.fl.us

Mr. Mike Halpin, DEP Siting Office: mike.halpin@dep.state.fl.us

Ms. Heather Abrams, U.S. EPA Region 4: abrams.heather@epa.gov

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Ms. Barbara Friday, DEP BAR (for posting with U.S. EPA Region 4): barbara.friday@dep.state.fl.us

Ms. Victoria Gibson, DEP BAR Reading File: victoria.gibson@dep.state.fl.us

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.

#### **FACILITY DESCRIPTION**

The Hardee Power Station is an existing nominal 370 megawatt (MW) power plant consisting of the following equipment.

- Units CT-1A (EU-001) and CT-1B (EU-002) comprise a "two-on-one" combined cycle system. Each unit is a General Electric Model No. PG-7111EA combustion turbine with a nominal capacity of 75 MW. The exhaust gas from each combustion turbine passes through an unfired heat recovery steam generator (HRSG) to produce steam, which is delivered to a common steam-electrical generator set rated at a nominal capacity of 70 MW. Each combustion turbine fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. Each unit is equipped with water injection to reduce nitrogen oxides (NO<sub>X</sub>) emissions. Each unit is also equipped with a bypass stack to bypass the HRSG if necessary.
- Unit CT-2A (EU-003) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7111EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. It is equipped with water injection to reduce NO<sub>X</sub> emissions.
- Unit CT-2B (EU-005) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7121EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. The unit incorporates dry low-NO<sub>X</sub> combustors for firing natural gas to prevent the formation of NO<sub>X</sub> emissions. It is equipped with water injection to reduce NO<sub>X</sub> emissions when firing distillate oil. The unit is also equipped with a continuous emissions monitoring system (CEMS) to determine continuous compliance with the NO<sub>X</sub> standards.

The plant includes a 4.4 million gallon storage tank (EU-004) for distillate oil as well as other miscellaneous unregulated and insignificant activities.

#### FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- Unit CT-2B is subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

#### PROPOSED PROJECT

As part of the project to renew the Title V air operation permit (Project No. 0490015-011-AV), the applicant requested a concurrent air construction permit revision to change several underlying construction permit conditions related to testing and monitoring. As part of the project, the permittee also agreed to reduce the maximum sulfur content of distillate oil from 0.5% to 0.05% by weight.

The following permit conditions are revised as indicated. Strikethrough is used to denote the deletion of text. Double-underlines are used to denote the addition of text. All changes are emphasized with yellow highlight in the electronic document.

Permit Being Modified: Permit No. PSD-FL-140

Affected Emissions Units: Combustion Turbines CT-1A, CT-1B and CT-2A (EU-001 and EU-003)

#### **Specific Conditions**

- 8. Compliance Testing. The permittee shall conduct initial (I) and annual (A) compliance testing in accordance with the following methods specified in Initial (I) compliance tests shall be performed using both fuels. The stack test for each turbine shall be performed within 10% of the maximum heat input rate for the tested operating temperature. Annual (A) compliance tests shall be performed on each Combustion Turbine with the fuel(s) used for more than 400 hours in the preceding 12 month period. Tests shall be conducted using EPA reference methods in accordance with the July 1, 1988, version of 40 CFR 60, Appendix A<sub>2</sub> ÷ and the following requirements.
  - a. Test Methods. The following test methods shall be used for compliance testing.
    - (1) a. Method 5, 5B or 17 for PM (I, A, for oil only).
    - (2) b. Method 8 for sulfuric acid mist (1, for oil only).
    - (3) e. Method 9 for VE (I, A).
    - (4) d. Method 10 for CO (I, A).
    - (5) e. Method 7E or 20 for  $NO_X$  (I, A).
    - (6) f. Method 18, 25 and/or 25A for VOC (I, A).
    - (7) g. Method 104 for beryllium (I, for distillate oil only). A fuel analysis for Be using either Method 7090 or 7091, and sample extraction using Method 3040, as described in the EPA solid waste regulations SW 846, is also acceptable.
    - (8) h. ASTM Method D 2880-72 for sulfur content of distillate oil (I, A).
    - (9) i. ASTM Method D 1072-80, D 3031-81, D 4084-82 or D 3246-81 for sulfur content of natural gas (I, and A if deemed necessary by the DEP DER).

Other DER DEP-approved methods may be used for compliance testing after prior Departmental approval.

- b. <u>Initial Tests</u>. Unless otherwise specified, initial compliance tests shall be performed on each combustion turbine using each fuel. The initial stack test for each combustion turbine shall be conducted within 10% of the maximum heat input rate for the actual tested compressor inlet temperature.
- c. <u>Annual Tests</u>. Annual compliance tests shall be conducted during each federal fiscal year (October 1<sup>st</sup> September 30<sup>th</sup>). The permittee shall conduct the required annual compliance tests on each combustion turbine for each fuel that is fired for more than 400 hours in the preceding federal fiscal year. Stack tests shall be conducted at permitted capacity in accordance with Rule 62-297.310(2), F.A.C. Annual VOC compliance tests are not required unless the unit fails a CO compliance test for a given fuel. Should a unit fail a CO test, the permittee shall conduct the VOC test during the same period as the CO re-test to demonstrate compliance.

Permit Being Modified: Permit No. PSD-FL-140A

Affected Emissions Units: Combustion Turbine CT-2B (EU-005)

#### Section III. Emissions Unit Specific Conditions

- 21. Excess Emissions Allowed: Excess emissions resulting from startup, shutdown, or malfunction of the combustion turbine shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Excess emissions resulting from startup to simple cyde mode shall not exceed one (1) hour. In no case shall excess emissions from startup, shutdown, and malfunction exceed two hours in any <u>calendar day 24-hour period</u>. If excess emissions occur due to malfunction, the owner or operator shall notify the Compliance Authority within one (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. [Applicant Request, Vendor Data and Rule 62-210.700, F.A.C.]
- 22. Combustion Turbine Testing Capacity: Testing of emissions shall be conducted with the combustion turbine operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by the permit, corrected for the average ambient air temperature during the test (with 100 percent represented by a curve depicting heat input vs. ambient temperature). If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. However, subsequent operation is limited by adjusting the entire heat input vs. ambient temperature curve downward by an increment equal to the percentage difference between the maximum permitted heat input (corrected for ambient temperature) and 110 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the permitted capacity. Emissions performance tests shall meet all applicable requirements of Chapters 62-204 and 62-297, F.A.C. [Rule 62-297.310(2), F.A.C.]
- 30. Annual Performance Tests: Annual performance compliance tests for CO, NO<sub>x</sub>, and visible emissions from the combustion turbine shall be conducted individually for the when firing of natural gas, and In addition, the permittee shall conduct the annual compliance tests for CO and visible emissions when firing low sulfur distillate oil if low sulfur distillate oil is fired for more than 400 hours in the preceding federal fiscal year. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). When conducted at permitted capacity, the annual NO<sub>x</sub> continuous monitor RATA required pursuant to 40 CFR 75 may be substituted for the annual compliance stack test. The CEMS data shall be used to demonstrate continuous compliance with the concentration-based NO<sub>x</sub> emissions standards. If requested by the Department, the permittee shall determine the NO<sub>x</sub> mass emission rate (lb/hour) from CEMS data to demonstrate compliance with the corresponding permit limits.
- 35. NOx CEM: The permittee shall install, calibrate, operate, and maintain a continuous emission monitoring system (CEMS) to measure and record NOx and oxygen concentrations in the combustion turbine exhaust stack. A monitor for carbon dioxide may be used in place of the oxygen monitor, but the system shall be capable of correcting the emissions to 15% oxygen. NOx data collected by the CEMS shall be used to demonstrate compliance with the 3-hour and 24-hour block emissions standards for NOx. The block averages shall be determined by calculating the arithmetic average of all hourly emission rates for the respective averaging period. Each 1-hour average shall be expressed in units of ppmvd corrected to 15% oxygen and calculated using at least two valid data points at least 15 minutes apart. Valid hourly emission rates shall not include periods of start up, shutdown, or malfunction unless prohibited by 62-210.700, F.A.C. When NOx monitoring data is not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate any specified averaging period.
  - (a) The monitoring devices shall comply with the certification and quality assurance, and any other applicable requirements of: Rule 62-297.520, F.A.C., including certification of each device in

- accordance with 40 CFR 60, Appendix B, Performance Specifications 2 and 3; 40 CFR 60.7(a)(5); 40 CFR 60.13; 40 CFR 60, Appendix F; and 40 CFR Part 75. A monitoring plan shall be provided to the DEP Emissions Monitoring Section Administrator, EPA and the Compliance Authority for review no later than 45 days prior to the first scheduled certification test pursuant to 40 CFR 75.62. The plan shall consist of data on CEM equipment specifications, manufacturer, type, calibration and maintenance needs, and its proposed location.
- (b) Continuous emission monitoring data required by this permit shall be collected and recorded during all periods of operation including startup, shutdown, and malfunction, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments.

  Although recorded, emissions during periods of startup, shutdown and malfunction are subject to the excess emission conditions specified in this permit. When the CEMS reports NOx emissions in excess of the standards allowed by this permit, the owner or operator shall notify the Compliance Authority within one (1) working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. The Department may request a written report summarizing the excess emissions incident.

[Rules 62-204.800, 62-210.700, 62-4.130, 62-4.160(8), F.A.C and 40 CFR 60.7]



# Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

#### PERMITTEE:

Hardee Power Partners A Subsidiary of Invenergy, LLC 6695 North County Road 663 Bowling Green, Florida 33834 Air Permit No. 0490015-011-AV Hardee Power Station Facility ID No. 0490015 Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V Air Operation Permit for the existing Hardee Power Station, which is an existing power plant located in Hardee County at 6695 North County Road 663 in Bowling Green, Florida. The map coordinates are: UTM Zone 17, 405.02 km East and 3057.18 km North; Latitude 27° 38'13" North, and Longitude 81°57'45" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

Effective Date: January 1, 2010

Renewal Application Due Date: May 20, 2015

Expiration Date: January 1, 2015

Joseph Kahn, Director

Division of Air Resource Management

JK/tlv/jkh/scd

Hardee Power Partners Limited (A Subsidiary of Invenergy, LLC) Hardee Power Station

> Facility ID No. 0490015 Hardee County

# FINAL Title V Air Operation Permit Renewal

Air Permit No. 0490015-011-AV (Renewal of Title V Air Operation Permit No. 0490015-005-AV)



#### **Permitting Authority:**

State of 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
Telephone: 850/488-0114
Fax: 850/921-9531

## **Compliance Authority:**

Department of Environmental Protection Southwest District Office 13051 N. Telecom Parkway Temple Terrace, Fl. 33637 Telephone: 813/632-7600

Fax: 813/632-7665

# Title V Air Operation Permit Renewal Air Permit No. 0490015-011-AV

#### **Table of Contents**

<u>Se</u>	<u>ction</u>	Page Number
I.	Facility Information	
	A. Facility Description	2
	B. Summary of Emissions Units	2
	C. Applicable Regulations	2
II.	Facility-wide Conditions	4
III	. Emissions Units and Conditions	
	A. Combustion Turbines CT-1A, CT-1B and CT-2A	6
	B. Combustion Turbine CT-2B	10
ΙV	. Acid Rain Part	15
V.	Clean Air Interstate Rule Part	20
VI	. Appendices	26
	Appendix A. Abbreviations, Acronyms, Citations and Identification Numbers	
	Appendix CAM. Compliance Assurance Monitoring Plan	
	Appendix CFM. NSPS Custom Fuel Monitoring Plan	
	Appendix CR. Common Regulatory Requirements	
	Appendix G-1. Manufacturer's Performance Curves	
	Appendix GG. NSPS Subpart GG for Stationary Gas Turbines	
	Appendix I. Insignificant Activities	
	Appendix NS. NSPS Subpart A for General Provisions	
	Appendix RR. Facility-Wide Reporting Requirements	
	Appendix TR. Facility-Wide Testing Requirements	
	Appendix TV. Title V General Conditions	
	Appendix U. Unregulated Activities	
	Appendix ZZZZ. NESHAP Subpart ZZZZ for Stationary Compression Ignition Internal Com-	oustion Engines
At	tachments	At End
	Table H, Permit History	

#### Subsection A. Facility Description

The Hardee Power Station is an existing power plant categorized under Standard Industrial Classification Code No. 4911. The nominal 370 megawatt (MW) plant consists of the following equipment.

- Units CT-1A (EU-001) and CT-1B (EU-002) comprise a "two-on-one" combined cycle system. Each unit is a General Electric Model No. PG-7111EA combustion turbine with a nominal capacity of 75 MW. The exhaust gas from each combustion turbine passes through an unfired heat recovery steam generator (HRSG) to produce steam, which is delivered to a common steam-electrical generator set rated at a nominal capacity of 70 MW. Each combustion turbine fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. Each unit is equipped with water injection to reduce nitrogen oxides (NO<sub>X</sub>) emissions. Each unit is also equipped with a bypass stack to bypass the HRSG if necessary.
- Unit CT-2A (EU-003) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7111EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. It is equipped with water injection to reduce NO<sub>X</sub> emissions.
- Unit CT-2B (EU-005) is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7121EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. The unit incorporates dry low-NO<sub>X</sub> combustors for firing natural gas to prevent the formation of NO<sub>X</sub> emissions. It is equipped with water injection to reduce NO<sub>X</sub> emissions when firing distillate oil. The unit is also equipped with a continuous emissions monitoring system (CEMS) to determine continuous compliance with the NO<sub>X</sub> standards.

The plant includes a 4.4 million gallon storage tank (EU-004) for distillate oil as well as other miscellaneous unregulated and insignificant activities.

A Compliance Assurance Monitoring (CAM) plan is required for combustion turbines CT-1A, CT-1B and CT-2A to identify proper operation of the water injection systems used to reduce NO<sub>X</sub> emissions. A CAM plan is not required for combustion turbine CT-2B since the unit is equipped with a CEMS to determine continuous compliance with the NO<sub>X</sub> standards.

#### Subsection B. Summary of Emissions Units

EU No.	Brief Description	
Regulated	Regulated Emissions Units	
001	Combustion Turbine CT-1A with an unfired HRSG	
002	Combustion Turbine CT-1B with an unfired HRSG	
003 Combustion Turbine CT-2A		
005	005 Combustion Turbine CT-2B	
Unregula	Unregulated Emissions Unit	
004	4.4 million gallon No. 2 fuel oil tank	

#### Subsection C. Applicable Regulations

The existing power plant is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C. The facility is a major source of hazardous air pollutants (HAPs) based on the application received on May 20, 2009 to renew the Title V air operation permit. The existing facility is a major stationary source of air pollution in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

The following table summarizes the primary applicable regulations.

#### SECTION I. FACILITY INFORMATION

Regulation	EU Nos.	
Federal Rule Citations		
40 CFR 60, NSPS Subpart A: General Provisions	001, 002, 003 & 005	
40 CFR 60, Subpart GG, NSPS for Gas Turbines	001, 002, 003 & 005	
40 CFR 72: Acid Rain Program Requirements	005	
40 CFR 75 Acid Rain Monitoring Provisions	005	
40 CFR 78: Acid Rain Program Appeal Procedures	005	
40 CFR 75: Acid Rain Continuous Emissions Monitoring	005	
40 CFR 77: Acid Rain Excess Emissions	005	
40 CFR 78: Acid Rain Appeal Procedures	005	
40 CFR 96: Clean Air Interstate Rule	001, 002, 003 & 005	
State Rule Citations		
Chapter 62-17, F.A.C.: Power Plant Site Certification (PA-89-25)	001, 002, 003 & 005	
Rule 62-204.800, F.A.C.: Federal Regulations Adopted by Reference 001, 002, 003 &		
Rule 62-212.400, F.A.C.: Prevention of Significant Deterioration (PSD) of Air Quality 001, 002, 003 &		
Rule 62-213.413, F.A.C.: Fast-Track Revisions of Acid Rain Parts.  001, 002, 003, 8		
Chapter 62-214, F.A.C.: Requirements For Sources Subject To The Federal Acid Rain Program 005		
Rule 62-296.470, F.A.C.: Implementation of Federal Clean Air Interstate Rule 001, 002, 003 &		

Note: "NSPS" means New Source Performance Standards.

#### The following conditions apply facility-wide to all emission units and activities.

- **FW1.** Appendices. The permittee shall comply with all documents identified in Section VI, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C.]
- **FW2.** Abbreviations, Acronyms and Regulatory Citations. Because of the technical nature of this permit, common abbreviations, acronyms and regulatory citations are summarized in Appendix A of this permit.
- **FW3.** <u>Title V General Conditions</u>. See Appendix TV of this permit for common requirements that are applicable to all emissions units or the facility in general.

#### **Emissions and Controls**

- FW4. Not federally Enforceable. Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]
- FW5. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department.

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

[Rule 62-296.320(1), F.A.C.]

- **FW6.** General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C. This regulation does not impose a specific testing requirement.
  - {Permitting Note: Although the Permittee is not required to perform a visible emissions compliance test to demonstrate compliance with the facility-wide limitations annually or before renewal, if the Department believes that the general visible emissions standard is being violated, the Department may require that the owner or operator perform a visible emissions compliance test per Chapter 62-297.310(7)(b), Special Compliance Tests.} [Rule 62-296.320(4)(b)1, F.A.C.]
- FW7. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:
  - a. Paving and maintenance of roads, parking areas and yards.
  - b. Chemical (dust suppressants) or water application to:
    - (1) Unpaved roads.
    - (2) Unpaved yard areas.
    - (3) Open stock piles.
  - c. Removal of PM from roads and other paved areas to prevent reentrainment and from buildings or work areas to prevent airborne particulate.
  - d. Landscaping or planting of vegetation.

#### SECTION II. FACILITY-WIDE CONDITIONS

- e. Use of hoods, fans, filters and similar equipment to contain, capture and/or vent PM.
- f. Confining abrasive blasting where possible.
- g. Enclosure or covering of conveyor systems.
- h. Other techniques, as necessary.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received May 20, 2009.]

#### **Annual Reports and Fees**

See Appendix RR of this permit, Facility-wide Reporting Requirements, for additional details.

- **FW8.** Annual Operating Report. The permittee shall submit an annual report that summarizes the actual operating rates and emissions from this facility. Annual operating reports shall be submitted to the Compliance Authority by April 1<sup>st</sup> of each year. [Rule 62-210.370(3), F.A.C.]
- FW9. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1<sup>st</sup> 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.]
- FW10. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit within 60 days after the end of each calendar year during which the Title V permit was effective. [Rules 62-213.440(3)(a)2 & 3 and (b), F.A.C.]
- **FW11.** Prevention of Accidental Releases (Section 112(r) of CAA). If and when the facility becomes subject to 112(r), the permittee shall:
  - a. Submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.
  - b. Submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C.

[40 CFR 68]

#### Subsection A. Combustion Turbines CT-1A, CT-1B and CT-2A (EU-001 – EU-003)

The specific conditions in this section apply to the following emissions units.

EU No.	Brief Description	
001	Combustion Turbine CT-1A with an Unfired HRSG	
002	Combustion Turbine CT-1B with an Unfired HRSG	
003	Combustion Turbine CT-2A	

Units CT-1A and CT-1B comprise a "two-on-one" combined cycle system. Each unit is a General Electric Model No. PG-7111EA combustion turbine with a nominal capacity of 75 MW. The exhaust gas from each combustion turbine passes through an unfired heat recovery steam generator (HRSG) to produce steam, which is delivered to a common steam-electrical generator set rated at a nominal capacity of 70 MW. Unit CT-2A is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7111EA with a nominal capacity of 75 MW.

Each combustion turbine fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. The maximum sulfur content of distillate oil is 0.5% by weight with a maximum annual average of 0.3% by weight. Each unit is equipped with water injection to reduce nitrogen oxides (NO<sub>X</sub>) emissions. The water-to-fuel ratio is continuously monitored for each unit. Each unit is also equipped with a bypass stack to bypass the HRSG if necessary.

Exhaust gas from Units CT-1A and CT-1B exit the HRSG stack (14.5 feet diameter and 90 feet tall) at approximately 250 °F with an actual volumetric flow rate of 751,000 acfm. Exhaust gas from Unit CT-2A exit a rectangular stack (14 feet by 18 feet and 75 feet tall) at approximately 986 °F with an actual volumetric flow rate of 1,423,722 acfm. These parameters are based on firing natural gas at 100% base load.

A Compliance Assurance Monitoring (CAM) plan is required for combustion turbines CT-1A, CT-1B and CT-2A to identify proper operation of the water injection systems used to reduce NO<sub>X</sub> emissions.

{Permitting Notes: Combustion turbines CT-1A, CT-1B and CT-2A are regulated under: Rule 62-210.300, F.A.C., Permits Required; 40 CFR 60, NSPS Subparts A (General Provisions) and GG (Stationary Gas Turbines), adopted by reference in Rule 62-204.800, F.A.C.; Rule 62-212.400, F.A.C., for the Prevention of Significant Deterioration of Air Quality; air construction Permit No. PSD-FL-140; and the applicable requirements of the Clean Air Interstate Rule, Rule 62-296.470, F.A.C. Note that these emissions units are not subject to the Acid Rain Program since they meet the requirements of 40 CFR 72.6(b)(6).}

#### **Essential Potential to Emit (PTE) Parameters**

**A.1.** Permitted Capacity. The maximum allowable heat input rate is as follows:

Unit No.	Heat Input Rate MMBtu/hour	Fuel Type
Onit No.	IVITATID tu/110 ui	Tuci Type
001	1,268.4/1,312.3	Natural Gas /Distillate Oil
002	1,268.4/1,312.3	Natural Gas /Distillate Oil
003	1,268.4/1,312.3	Natural Gas /Distillate Oil

[Rules 62-4.160(2), 62-204.800 & 62-210.200(PTE), F.A.C.; and Permit No. PSD-FL-140]

- A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(2), F.A.C.]
- **A.3.** Methods of Operation Fuels. Only the following fuels shall be fired in these units:
  - a. Natural gas; and

#### Subsection A. Combustion Turbines CT-1A, CT-1B and CT-2A (EU-001 - EU-003)

b. No. 2 distillate oil. The maximum sulfur content of distillate oil shall not exceed 0.5% by weight and the annual average sulfur content of distillate oil shall not exceed 0.3% by weight.

[Rule 62-213.410, F.A.C. and Permit No. PSD-FL-140]

**A.4.** Hours of Operation. The combustion turbines may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C. and Permit No. PSD-FL-140]

#### **Performance Requirements**

A.5. Annual Capacity Factor. If the cumulative lifetime capacity factor for Units CT-1A, CT-1B and CT-2A exceeds 60% at any time, the permittee shall install selective catalytic reduction (SCR) or other equivalent technology with equal or greater NO<sub>x</sub> reduction capability. In no event shall any such SCR (or equivalent NO<sub>x</sub> control technology) installation and compliance testing occur later than 30 months from the date that the permittee requested, or the facility exceeded, the 60% cumulative lifetime average capacity factor. [Permit No. PSD-FL-140]

#### **Emission Limitations and Standards**

Unless otherwise specified, the averaging period for the following emissions standards are based on the averaging period specified in the applicable test method.

- A.6. <u>Nitrogen Oxides</u>. NO<sub>x</sub> emissions from each combustion turbine shall not exceed:
  - a. 42 ppmvd at 15% O<sub>2</sub> and 215.9 lb/hour, while firing natural gas; and
  - b. 65 ppmvd at 15% O<sub>2</sub> and 383.8 lb/hour, while firing fuel oil.

[Permit No. PSD-FL-140]

- A.7. <u>Sulfur Dioxide</u>. SO<sub>2</sub> emissions from each combustion turbine shall not exceed 35.8 lb/hour while firing natural gas and 734.4 lb/hour while firing distillate oil. [Permit No. PSD-FL-140]
- **A.8.** Particulate Matter (PM/PM<sub>10</sub>) PM/PM<sub>10</sub> emissions from each combustion turbine shall not exceed 5 lb/hour while firing natural gas and 10 lb/hour while firing distillate oil. [Permit No. PSD-FL-140]
- A.9. <u>Carbon Monoxide</u>. CO emissions from each combustion turbine shall not exceed 10 ppmvd and 31.3 lb/hour while firing natural gas. CO emissions from each combustion turbine shall not exceed and 26 ppmvd and 93.4 lb/hour while firing distillate oil. [Permit No. PSD-FL-140]
- **A.10.** Volatile Organic Compounds (VOC). VOC emissions from each combustion turbine shall not exceed 2 ppmvd and 3.6 lb/hour while firing natural gas. VOC emissions from each combustion turbine shall not exceed 5 ppmvd and 10.3 lb/hour while firing distillate oil. VOC emissions shall be measured and reported as methane. [Permit No. PSD-FL-140]
- **A.11.** <u>Visible Emissions</u>. Visible emissions from each combustion turbine shall not exceed 10% opacity while firing natural gas and 20% opacity while firing distillate oil. {Permitting Note: Visible emissions serve as a surrogate for particulate matter.} [Permit No. PSD-FL-140]

#### **Monitoring Requirements**

- A.12. CMS Requirements. The permittee shall install, operate and maintain a continuous monitoring system (CMS) to monitor and record the fuel consumption and the ratio of water-to-fuel being fired in each combustion turbine. The systems shall be accurate to within ±5.0% and shall be approved by the Department. [Permit No. PSD-FL-140]
- **A.13.** CAM Plan. These emissions units are subject to the Compliance Assurance Monitoring (CAM) requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may

#### Subsection A. Combustion Turbines CT-1A, CT-1B and CT-2A (EU-001 – EU-003)

constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C. [40 CFR 64; Rules 62-204.800 and 62-213.440(1)(b)1.a, F.A.C.]

#### **Test Methods & Procedures**

**A.14.** Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments	
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content	
5, 5B or 17	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM <sub>10</sub> .)	
7E or 20	Determination of Nitrogen Oxide Emissions from Stationary Sources	
9	Visual Determination of the Opacity of Emissions from Stationary Sources	
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}	
18, 25 and/or 25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)	

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-297.401, F.A.C. and Permit No. PSD-FL-140C]

- A.15. Annual Compliance Tests: Annual compliance tests shall be conducted during each federal fiscal year (October 1<sup>st</sup> September 30<sup>th</sup>) for CO, NO<sub>x</sub>, PM (distillate oil only), VOC (reported as methane) and visible emissions. The permittee shall conduct the required annual compliance tests on each combustion turbine for each fuel that is fired for more than 400 hours in the preceding federal fiscal year. Stack tests shall be conducted at permitted capacity in accordance with Rule 62-297.310(2), F.A.C. See Appendix TR for operating rate during testing. Annual VOC compliance tests are not required unless the unit fails a CO compliance test for a given fuel. Should a unit fail a CO test, the permittee shall conduct the VOC test during the same period as the CO re-test to demonstrate compliance. [Rule 62-297.310(7)(a)(4), F.A.C. and Permit No. PSD-FL-140C]
- **A.16.** Sampling Facilities. Permanent stack sampling facilities shall be installed on each stack (including HRSG and bypass stacks) in accordance with Rule 62-297.310(6), F.A.C. [Rules 62-204.800 and 62-297.310(6), F.A.C.; and Permit No. PSD-FL-140]
- A.17. Sulfur Content. The methods specified in NSPS Subpart GG (40 CFR 60.333) shall be used to determine compliance with the maximum sulfur content for distillate oil. See Appendix GG of this permit. [Permit No. PSD-FL-140]
- **A.18.** Appendix TR. For other common test requirements and procedures, see Appendix TR of this permit, Facility-Wide Testing Requirements.

#### **Common Conditions**

**A.19.** Common Requirements: Appendix CR of this permit identifies several common regulatory requirements generally applicable to emissions units.

#### Notification, Record Keeping and Reporting

- **A.20.** Annual Capacity Factor Report: On or before April 1<sup>st</sup> of each year, the permittee shall submit to the Department's Bureau of Air Regulation and the Department's Southwest District Office an annual report for the previous calendar year summarizing:
  - a. The annual average capacity factor for each combustion turbine;

#### Subsection A. Combustion Turbines CT-1A, CT-1B and CT-2A (EU-001 – EU-003)

- b. The cumulative lifetime average capacity factor for each combustion turbine;
- c. The annual average capacity factor for Units CT-1A, CT-1B and CT-2A combined; and
- d. The cumulative lifetime average capacity factor for the Units CT-1A, CT-1B and CT-2A combined.

The annual average capacity factor shall be calculated by dividing the MW-hours generating output of each unit by the product of the official MW rating of the unit and the number of hours in a year. Cumulative lifetime average capacity factor shall be calculated by dividing the cumulative total MW-hours generating output for each unit by the product of the official combined cycle MW rating for the unit and the cumulative period of hours since commercial operation. To determine compliance with the annual capacity factor restriction, the permittee shall maintain daily records of power generation for each combustion turbine. [Permit No. PSD-FL-140]

- **A.21.** Black Starts. If start/black start capability for the combustion turbines is provided by a combustion unit, the Department shall be notified of the type and model, output capacity, anticipated hours of operation and the air emissions of the unit. [Permit No. PSD-FL-140]
- **A.22.** Reporting Schedule. The following reports and notifications shall be submitted to the Compliance Authority:

Report	Reporting Deadline	Related Conditions
Annual Capacity Factor Report	April 1 <sup>st</sup> of each year	A.20
Notice of Black Starts	Each occurrence	A.21

See also Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements.

#### **Federal NSPS Provisions**

A.23. NSPS Provisions. The combustion turbines are subject to the applicable provisions in Subparts A (General Provisions) and Subpart GG (Stationary Gas Turbines) of 40 CFR 60. In this permit, see Appendix NS (NSPS Subpart A for General Provisions) and Appendix GG (NSPS Subpart GG for Stationary Gas Turbines).

#### Subsection B. Combustion Turbine CT-2B (EU-004)

The specific conditions in this section apply to the following emissions unit.

E	U No.	Brief Description	
	005	05 Combustion Turbine (CT-2B)	

Unit CT-2B is a simple cycle combustion turbine consisting of a General Electric Model No. PG-7121EA with a nominal capacity of 75 MW. The unit fires natural gas as the primary fuel and distillate oil as a restricted auxiliary fuel. The unit incorporates dry low-NO<sub>X</sub> combustors for firing natural gas to prevent the formation of NO<sub>X</sub> emissions. It is equipped with water injection to reduce NO<sub>X</sub> emissions when firing distillate oil. The unit is also equipped with a continuous emissions monitoring system (CEMS) to determine continuous compliance with the NO<sub>X</sub> standards. Exhaust gases exit a rectangular stack (9 feet by 19 feet and 85 feet tall) at approximately 1000° F with a volumetric flow rate of 1,465,518 acfm. These parameters are based on firing natural gas at 100% base load and cooling the compressor inlet air to 59° F.

A CAM plan is not required for combustion turbine CT-2B since the unit is equipped with a CEMS to determine continuous compliance with the NO<sub>x</sub> standards.

{Permitting Notes: Combustion turbine CT-2B is regulated under: Rule 62-210.300, F.A.C., Permits Required; 40 CFR 60, NSPS Subparts A (General Provisions) and GG (Stationary Gas Turbines), adopted by reference in Rule 62-204.800, F.A.C.; Rule 62-212.400, F.A.C., for the Prevention of Significant Deterioration of Air Quality; air construction Permit No. PSD-FL-140; the applicable provisions of the Acid Rain Program; and the applicable requirements of the Clean Air Interstate Rule, Rule 62-296.470, F.A.C.}

#### Essential Potential to Emit (PTE) Parameters

- **B.1.** Permitted Capacity. The combustion turbine shall operate only in simple-cycle mode and generate a nominal 75 MW of electrical power. Operation of this emissions unit shall not exceed 950 MMBtu per hour of heat input from firing natural gas and 1060 MMBtu per hour of heat input from firing low sulfur distillate oil. The maximum heat inputs are based on the lower heating value (LHV) of each fuel, an inlet air supply cooled to 59 °F, a relative humidity of 60%, an ambient air pressure of 14.7 psi, and 100% base load. Therefore, maximum heat input rates will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's performance curves, corrected for site conditions or equations for correction to other ambient conditions, have been provided and are a part of this permit. See Attachment G-1. [Permit Nos. PSD-FL-140A and PSD-FL-140B]
- **B.2.** Methods of Operation Fuels. The combustion turbine shall be fired by pipeline natural gas containing no more than 2 grains of sulfur per 100 dry standard cubic feet of gas. As a backup fuel, the combustion turbine may be fired with No. 2 distillate oil (or a superior grade) containing no more than 0.05% sulfur content by weight. [Permit No. PSD-FL-140A]
- **B.3.** Hours of Operation. The hours of operation of the combustion turbine are not limited when firing natural gas (8760 hours per year). The combustion turbine shall not fire low sulfur distillate oil for more than 876 hours during any consecutive 12 months. Operation below 50% of baseload operation shall be limited to two hours per unit cycle (breaker open to breaker closed). [Rule 62-212.400(6), F.A.C. (BACT) and Permit No. PSD-FL-140A]
- **B.4.** Simple Cycle Operation. The combustion turbine shall operate only in simple cycle mode. This requirement is based on the permittee's request, which formed the basis of the NO<sub>X</sub> BACT determination and resulted in the emission standards specified in this permit. Specifically, the NO<sub>X</sub> BACT determination eliminated several control alternatives based on technical considerations and costs due to the elevated temperatures of the exhaust gas. Any request to convert this unit to combined cycle operation by installing a new heat recovery steam generator or connecting this unit to an existing heat recovery steam generator shall require the permittee to perform a new NO<sub>X</sub> BACT analysis and the approval of the Department through a

#### Subsection B. Combustion Turbine CT-2B (EU-004)

permit modification. The results of this analysis may validate the initial BACT determination or result in the submittal of a full PSD permit application, new control equipment, and new emissions standards. [Rule 62-212.400(6)(b), F.A.C. and Permit No. PSD-FL-140A]

#### **Performance Restrictions**

**B.5.** Operating Procedures. The Best Available Control Technology (BACT) determinations established by this permit rely on "good operating practices" to minimize emissions. Therefore, all operators and supervisors shall be properly trained to operate and maintain the combustion turbine and pollution control devices in accordance with the guidelines and procedures established by each equipment manufacturer. The training shall include good operating practices as well as methods of minimizing excess emissions. [Rule 62-4.070(3), F.A.C.; Rule 62-212.400(6), F.A.C. (BACT); and Permit No. PSD-FL-140A]

#### **Emission Limitations and Standards**

Unless otherwise specified, the averaging period for the following emissions standards are based on the averaging period specified in the applicable test method.

#### **B.6.** Nitrogen Oxides.

- a. <u>Gas Firing</u>: When firing natural gas in the combustion turbine, NO<sub>X</sub> emissions shall not exceed 32.0 lb/hour and 9.0 ppmvd corrected to 15% oxygen, based on a 3-hour test average. In addition, NO<sub>X</sub> emissions shall not exceed 9.0 ppmvd corrected to 15% oxygen, based on a 24-hour block average for data collected from the continuous emissions monitor.
- b. Oil Firing: When firing low sulfur distillate oil in the combustion turbine, NO<sub>X</sub> emissions shall not exceed 167.0 lb/hour and 42.0 ppmvd corrected to 15% oxygen, based on a 3-hour test average. In addition, NO<sub>X</sub> emissions shall not exceed 42.0 ppmvd corrected to 15% oxygen, based on a 3-hour block average for data collected from the continuous emissions monitor.

 $NO_X$  emissions are defined as emissions of oxides of nitrogen measured as  $NO_2$ . Compliance with the 3-hour (applicable during distillate fuel oil-firing) and 24-hour (applicable during natural gas-firing) block averages shall be demonstrated by collecting and reporting data in accordance with the conditions for the  $NO_X$  continuous emissions monitor specified by this permit. [Permit No. PSD-FL-140A]

#### B.7. Carbon Monoxide.

- a. Gas Firing: When firing natural gas in the combustion turbine, CO emissions shall not exceed 43.0 lb/hour and 20.0 ppmvd corrected to 15% oxygen, based on a 3-hour test average.
- b. *Oil Firing*: When firing low sulfur distillate oil in the combustion turbine, CO emissions shall not exceed 43.0 lb/hour and 20.0 ppmvd corrected to 15% oxygen, based on a 3-hour test average.

[Permit No. PSD-FL-140A]

- **B.8.** Sulfur Dioxide and Sulfuric Acid Mist (SAM). SO<sub>2</sub> and SAM emissions shall be limited by the good combustion techniques and the fuel sulfur limitations specified in this permit: natural gas containing no more than 2 grains of sulfur per 100 dry standard cubic feet of gas and No. 2 distillate oil (or a superior grade) containing no more than 0.05% sulfur content, by weight. [Permit No. PSD-FL-140A]
- **B.9.** Particulate Matter (PM/PM<sub>10</sub>). PM/PM<sub>10</sub> emissions from the combustion turbine shall be limited by the good combustion techniques and the fuel sulfur limitations specified in this permit: natural gas containing no more than 2 grains of sulfur per 100 dry standard cubic feet of gas and No. 2 distillate oil (or a superior grade) containing no more than 0.05% sulfur content by weight. [Permit No. PSD-FL-140A]
- **B.10.** <u>Visible Emissions</u>. As a surrogate for PM/PM<sub>10</sub> emissions, visible emissions from the operation of the combustion turbine shall not exceed 10% opacity, based on a 6-minute average. [Permit No. PSD-FL-140A]

#### Subsection B. Combustion Turbine CT-2B (EU-004)

#### **B.11.** Volatile Organic Compounds (VOCs).

- a. <u>Gas Firing</u>: When firing natural gas in the combustion turbine, VOC emissions shall not exceed 2.0 lb/hour and 2.0 ppmvd, based on a 3-hour test average.
- b. Oil Firing: When firing low sulfur distillate oil in the combustion turbine, VOC emissions shall not exceed 5.0 lb/hour and 4.0 ppmvd, based on a 3-hour test average.

The VOC emissions shall be measured and reported in terms of methane. [Permit Nos. PSD-FL-140A and PSD-FL-140C]

#### **Excess Emissions**

#### **B.12.** Excess Emissions.

- a. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown, or malfunction of the combustion turbine shall be permitted provided that best operational practices are adhered to and the duration of excess emissions shall be minimized. Excess emissions resulting from startup to simple cycle mode shall not exceed one hour. In no case shall excess emissions from startup, shutdown, and malfunction exceed two hours in any calendar day. If excess emissions occur due to malfunction, the owner or operator shall notify the Compliance Authority within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and, the actions taken to correct the problem. [Rule 62-210.700, F.A.C. and PSD-FL-140C]
- b. Excess Emissions Prohibited. Excess emissions caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure that may reasonably be prevented during startup, shutdown or malfunction, shall be prohibited. These emissions shall be included in the calculation of the 24-hour NO<sub>X</sub> averages for compliance determinations. [Permit No. PSD-FL-140A]

#### **Monitoring Requirements**

- B.13. NO<sub>x</sub> CEMS. The permittee shall install, calibrate, operate and maintain a CEMS to measure and record NO<sub>x</sub> and oxygen concentrations in the combustion turbine exhaust stack. A monitor for carbon dioxide may be used in place of the oxygen monitor, but the system shall be capable of correcting the emissions to 15% oxygen. NO<sub>x</sub> data collected by the CEMS shall be used to demonstrate compliance with the 3-hour (applicable to distillate fuel oil-firing) and 24-hour (applicable to natural gas-firing) block emissions standards for NO<sub>x</sub>. The block averages shall be determined by calculating the arithmetic average of all hourly emission rates for the respective averaging period. Each 1-hour average shall be expressed in units of ppmvd, corrected to 15% oxygen and calculated using at least two valid data points at least 15 minutes apart. Valid hourly emission rates shall not include periods of startup, shutdown or malfunction unless prohibited by Rule 62-210.700, F.A.C. When NO<sub>x</sub> monitoring data is not available, substitution for missing data shall be handled as required by Title IV (40 CFR 75) to calculate any specified averaging period.
  - a. The monitoring devices shall comply with the certification and quality assurance, and any other applicable requirements of: Rule 62-297.520, F.A.C., including certification of each device in accordance with 40 CFR 60, Appendix B, Performance Specifications 2 and 3; 40 CFR 60.7(a)(5); 40 CFR 60.13; 40 CFR 60, Appendix F; and, 40 CFR Part 75.
  - b. Continuous emission monitoring data required by this permit shall be collected and recorded during all periods of operation including startup, shutdown, and malfunction, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments. When the CEMS reports NO<sub>X</sub> emissions in excess of the standards allowed by this permit, the owner or operator shall notify the Compliance Authority within one working day of: the nature, extent, and duration of the excess emissions; the cause of the excess emissions; and the actions taken to correct the problem. The Department may request a written report summarizing the excess emissions incident.

#### Subsection B. Combustion Turbine CT-2B (EU-004)

- c. The CEMS data may be used for reporting excess NO<sub>X</sub> emissions in accordance with 40 CFR 60.334(c)(1), NSPS Subpart GG. See Appendix GG of this permit.
- d. When requested by the Department, the CEMS emission rates for NO<sub>X</sub> from this unit shall be corrected to ISO conditions to demonstrate compliance with the NO<sub>X</sub> standard established in 40 CFR 60.332.

[Rules 62-204.800, 62-210.700, 62-4.130 and 62-4.160(8), F.A.C.; 40 CFR 60.7; and Permit No. PSD-FL-140C]

#### **Test Methods & Procedures**

- **B.14.** Combustion Turbine Testing Capacity. Testing of emissions shall be conducted with the combustion turbine operating at permitted capacity. Permitted capacity is defined as 90-100 percent of the maximum heat input rate allowed by the permit, corrected for the average ambient air temperature during the test (with 100 percent represented by a curve depicting heat input vs. ambient temperature). If it is impracticable to test at permitted capacity, the source may be tested at less than permitted capacity. However, subsequent operation is limited by adjusting the entire heat input vs. ambient temperature curve downward by an increment equal to the percentage difference between the maximum permitted heat input (corrected for ambient temperature) and 110 percent of the value reached during the test until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purposes of additional compliance testing to regain the authority to operate at the permitted capacity. Emissions performance tests shall meet all applicable requirements of Chapters 62-204 and 62-297, F.A.C. [Rules 62-4.070(3) and 62-297.310(2), F.A.C.; and Permit No. PSD-FL-140C]
- B.15. Annual Performance Tests: Annual compliance tests for CO and visible emissions from the combustion turbine shall be conducted when firing natural gas. In addition, the permittee shall conduct the annual compliance tests for CO and visible emissions when firing low sulfur distillate oil if low sulfur distillate oil is fired for more than 400 hours in the preceding federal fiscal year. Tests required on an annual basis shall be conducted at least once during each federal fiscal year (October 1st to September 30th). The CEMS data shall be used to demonstrate continuous compliance with the concentration-based NOx emissions standards. If requested by the Department, the permittee shall determine the NO<sub>X</sub> mass emission rate (lb/hour) from CEMS data to demonstrate compliance with the corresponding permit limits. [Rule 62-297.310(7)(a)4., F.A.C. and Permit No. PSD-FL-140C]
- **B.16.** Tests Prior to Permit Renewal. During the federal fiscal year (October 1<sup>st</sup> to September 30<sup>th</sup>) 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.]
- **B.17.** Tests After Substantial Modifications. All performance tests required for initial startup shall also be conducted after any substantial modification and appropriate shake-down period of air pollution control equipment including the replacement of dry low-NO<sub>x</sub> combustors. Shakedown periods shall not exceed 100 days after re-starting the combustion turbine. [Rule 62-297.310(7)(a)4, F.A.C.]
- **B.18.** <u>VE Tests After Shutdown</u>. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions (VE) compliance test once per each five-year period, coinciding with the term of its air operation permit. [Rule 62-297.310(7)(a)8, F.A.C.]
- **B.19.** Test Methods. Required tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments	
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources	
9	Visual Determination of the Opacity of Emissions from Stationary Sources	
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}	

#### Subsection B. Combustion Turbine CT-2B (EU-004)

Method	Description of Method and Comments	
20	Determination of Oxides of Nitrogen Oxide, Sulfur Dioxide and Diluent Emissions from Stationary Garantees.	
18, 25 and/or 25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)	

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-297.401, F.A.C. and Permit No. PSD-FL-140]

**B.20.** Appendix TR. For other common test requirements and procedures, see Appendix TR of this permit, Facility-Wide Testing Requirements.

#### Notification, Record Keeping and Reporting

B.21. Monthly Operations Summary. By the fifth calendar day of each month, the owner or operator shall record the following information in a written (or electronic) log for the previous month of operation: the amount of hours each fuel was fired; the quantity of each fuel fired; the calculated average heat input of each fuel fired in MMBtu per hour, based on the lower heating value; and, the average sulfur content of each fuel. In addition, the owner or operator shall record the hours of oil firing for the previous 12 months of operation. The Monthly Operations Summary shall be maintained on site in a legible format available for inspection or printed at the Department's request. [Rule 62-4.160(15), F.A.C.; and, Permit No. PSD-FL-140A]

#### B.22. Fuel Records.

- a. <u>Natural Gas</u>. The permittee shall demonstrate compliance with the fuel sulfur limit for natural gas specified in this permit by the methods specified in the NSPS Subpart GG monitoring requirements (40 CFR 60.333) or the approved custom fuel monitoring plan identified in Appendix CFM of this permit.
- b. Low Sulfur Distillate Oil. The permittee shall demonstrate compliance with the fuel sulfur limit for distillate oil received at this facility by obtaining an analysis identifying the sulfur content from the fuel vendor for all bulk shipments. Methods for determining the sulfur content of the distillate oil shall be ASTM D129-91, D2622-94, or D4294-90, or equivalent methods. Records shall specify the test method used and shall comply with the requirements of 40 CFR 60.335(d).

[Rules 62-4.070(3) and 62-4.160(15), F.A.C.; 40 CFR 60.334; and Permit No. PSD-FL-140A]

#### **Common\_Conditions**

**B.23.** Common Requirements: Appendix CR of this permit identifies several common regulatory requirements generally applicable to emissions units.

#### **Federal NSPS Provisions**

B.24. NSPS Provisions. The combustion turbines are subject to the applicable provisions in Subparts A (General Provisions) and Subpart GG (Stationary Gas Turbines) of 40 CFR 60. In this permit, see Appendix NS (NSPS Subpart A for General Provisions) and Appendix GG (NSPS Subpart GG for Stationary Gas Turbines).

#### SECTION IV. ACID RAIN PART

#### Federal Acid Rain Provisions

Operated by: Hardee Power Partners

ORIS Code: 50949

The emissions units listed below are regulated under Acid Rain, Phase II.

EU No.	EPA Unit ID No.	Brief Description
005	CT-2B	Combustion Turbine

- **A.1.** The Phase II Acid Rain Part application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:
  - a. DEP Form No. 62-210.900(1)(a), dated 05/18/09, received 05/20/09.

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

- A.2. Sulfur dioxide (SO<sub>2</sub>) Emission Allowances. SO<sub>2</sub> emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
  - a. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
  - b. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
  - c. c. Allowances shall be accounted for under the Federal Acid Rain Program.

[Rule 62-213.440(1)(c)1, 2 & 3, F.A.C.]

### 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: $\square$ New $\square$ Revised $\blacksquare$ Renewal	
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STEP 1

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

Hardee Power Station	Florida	50949
Plant name	State	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 SO₂ Opt-in unit, enter "yes" in olumn "b".

For new units or SO<sub>2</sub> Opt-in units, enter the requested information in columns "d" and "e."

_					
	а	b	С	d	е
	Unit ID#	SO <sub>2</sub> Opt-In Unit will hold allowances (Yes or No) allowances in accordance with 40 CFR 72.9(c)(1)		New or SO <sub>2</sub> Opt-in Units Commence Operation Date	New or SO <sub>2</sub> Opt-In Units  Monitor Certification Deadline
	CT2B	No	Yes	N/A	N/A
			Yes		
			Yes		
ļ			Yes		
l			Yes		
ļ			Yes		
ļ	····		Yes		
			Yes		1
			Yes		
ļ			Yes		
-			Yes		
			Yes		

DEP Form No. 62-210.900(1)(a) -- Form Effective: 3/16/08

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#### Hardee Power Station

Plant Name (from STEP 1)

#### STEP 3

#### Acid Rain Part Requirements.

#### Read the standard requirements.

- (1) The designated representative of each Acid Rein 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;
- The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall:
  - (i) Operate the unit in complience 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 end, 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 exides under the Acid Rain
- (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
- (4) For applications including a SO<sub>2</sub> Opt-in unit, a monitoring plan for each SO<sub>2</sub> Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO<sub>2</sub> 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 celendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
- Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of
- 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 72.8(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
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain
- (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 Rein Program. No provision of the Acid Rein Program, the Acid Rein Part application, the Acid Rein 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 Rein 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.
- 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 tarms 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 supersaded 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;
    (ill) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program;

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

Effective: 3/16/08

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Hardee Power Station	
Plant Name (from STEP 1)	

#### JTEP 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 Actd Rain Program that occurs prior to the date that the revision

- (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 en 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<sub>x</sub> averaging plans), and except with regard to the requirements explicable to units with a common stack under 40 CFR 76.15 (including 40 CFR 75.15, 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 trued 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;
- obligation to compty 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, 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<sub>2</sub> Opt-in units only.

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

For column "g" describe the combustion unit and attach Information and dlagrams on the combustion unit's configuration.

In column "h" inter the hours.

f	g	h (not required for renewal application)	
Unit !D#	Description of the combustion unit	Number of hours unit operated in the six months preceding initial application	
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DEP Form No. 62-210.900(1)(a) - Form

Effective: 3/16/08

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	Hardee Power S	station					
	Plant Name (from ST	EP 1)					
STEP 5	i	j	k	Ţ ,		m	n
For SO <sub>2</sub> Opt-in units only.		•		<u> </u>			
(Not required for \$0 <sub>2</sub> Opt-In renewal applications.) In column "!" enter the unit ID# for	Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20	Actual SO <sub>2</sub> Emissions Rate under 40 CFR 74.22	Allowable SO <sub>2</sub> Emis Rate un 40 CFR 7	sions Ider	Current Allowable SO <sub>2</sub> Emissions Rate under 40 CFR 74.24	Current Promulgated SO <sub>2</sub> Emissions Rate under 40 CFR 74.25
every SO <sub>2</sub> Opt-in unit identified in column "a" (and in column "f").		(mmBtu)	(lbs/mmBtu)	(lbs/mm	Btu)	(lbs/mmBtu)	(lbs/mmBtu)
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.							
STEP 6  For SO <sub>2</sub> 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 <sub>2</sub> 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		
Read the 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 is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submoducument and all its attactments. Based on my inquiry of those individuals with primary responsibility for obtaining the information attatement; provide name, title, owner company name,					ubmitted in this ation, I certify that the e significant penaltles		
phone, and e-mall address; sign, and date.	Ralph E. Randa Name	II		Plant Manag Titje	ger		
	Hardee Power Partners Limited Owner Company Name						
	(863) 375-3266 rrandall@invenergylic.com Phone E-mail address						
Signature Welch & Kindel Date 5/18/09						9	
DEP Form No. 62-210.900(1)(a) – Form Effective: 3/16/08  4 Y:GDP-09HPP/TITLVREN-ATTI.DOC=051409							

#### SECTION V. CLEAN AIR INTERSTATE RULE

#### Federal Clean Air Interstate Rule

Operated by: Hardee Power Partners Limited

Plant: Hardee Power Station

ORIS Code: 50949

The following emissions units are regulated under the Clean Air Interstate Rule.

EU No.	EPA Unit ID No.	Brief Description		
001	CT-1A	Combustion Turbine with an unfired HRSG		
002	CT-1B	Combustion Turbine with an unfired HRSG  Combustion Turbine  Combustion Turbine		
003	CT-2A			
005	CT-2B			

A.1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule (CAIR) Part submitted for this facility is a part of this permit. The owners and operators of the CAIR units shall comply with the standard requirements and special provisions set forth in the DEP Form No. 62-210.900(1)(b), F.A.C. dated March 16, 2008, which is attached in this permit section. [Chapter 62-213, F.A.C.; Rules 62-210.200 and 62-296.470, F.A.C.]

#### Federal Clean Air Interstate Rule

### 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	Plant Name: Hardee Power Station			State: Florida	ORIS or EIA Plant Code:
Identify the source by plant name and 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.

	а	b	С	đ	е	f
		Unit will hold nitrogen oxides (NO <sub>X</sub> )	Unit will hold sulfur dioxide (SO <sub>2</sub> )	Unit will hold NO <sub>X</sub> Ozone Season	New Units	New Units
.		allowances in accordance with 40 CFR	allowances in accordance with 40 CFR	allowances in accordance with 40 CFR	Expected Commence Commercial	Expected Monitor Certification
	Unit ID#	96.106(c)(1)	96.206(c)(1)	96.306(c)(1)	Operation Date	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
١	СТ2В	x	x	х	N/A	N/A
			. —			
		······································				
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DEP Form No. 62-210.900(1)(b) - Form

Effective: 3/16/08

1

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Hardee Power Station	
Plant Name (from STEP 1)	

#### STEP 3

### Read the standard requirements.

### CAIR NO<sub>X</sub> ANNUAL TRADING PROGRAM

#### CAIR Part Requirements.

- The CAIR designated representative of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> 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 padlines specified in Rule 62-213.420, F.A.C.; and (ii) [Reserved];
- The owners and operators of each CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> 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

### Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>2</sub> source and each CAIR NO<sub>2</sub> 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<sub>x</sub> source with the following CAIR NO<sub>x</sub> Emissions Requirements.

### NO<sub>X</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>X</sub> source and each CAIR NO<sub>X</sub> unit at the source shall hold, in the source's compliance account, CAIR NO<sub>X</sub> allowances available for compliance deductions for the control period under 40 CFR 98.154(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 98, Subpart HH.
- (2) A CAIR NO<sub>x</sub> anti-shall be subject to the requirements under peragraph (1) of the NO<sub>x</sub> 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<sub>x</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>x</sub> Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated.

  (4) CAIR NO<sub>x</sub> allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>x</sub> Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FF and GG.
- (5) A CAIR NO<sub>X</sub> allowance is a limited authorization to emit one ton of NO<sub>X</sub> in accordance with the CAIR NO<sub>X</sub> Annual Trading Program. No provision of the CAIR NO<sub>X</sub> 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<sub>x</sub> 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<sub>x</sub> allowance to or from a CAIR NO<sub>x</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR

# Excess Emissions Requirements.

- If a CAIR NO<sub>x</sub> source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, then:
- (1) The owners and operators of the source and each CAIR NO<sub>x</sub> unit at the source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 40 CFR 98.154(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 NOx source and each CAIR NOx unit at the source shall keep on site at
- (1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> 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<sub>x</sub> 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, of this part, provided from the extent that 40 CFR Part 96. Subpart HH, of this part, provided that to the extent that 40 CFR Part 96. Subpart HH, of this part, provided that the certificate of the submission of the submissio
- 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<sub>x</sub> Annual
- (iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.

  (2) The CAIR designated representative of a CAIR NO<sub>x</sub> source and each CAIR NO<sub>x</sub> unit at the source shall submit the reports required under the CAIR NO<sub>x</sub> Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

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

Effective: 3/16/08

2

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#### STEP 3, Continued

Hardee Power Station	
Plant Name (from STEP 1)	

#### Liability.

- (1) Each CAIR NO<sub>x</sub> source end each CAIR NO<sub>x</sub> unit shall meet the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.
- (2) Any provision of the CAIR NO<sub>X</sub> Annual Trading Program that applies to a CAIR NO<sub>X</sub> source or the CAIR designated representative of e CAIR NO<sub>X</sub> source shall also apply to the owners and operators of such source and of the CAIR NO<sub>X</sub> units et the source.

  (3) Any provision of the CAIR NO<sub>X</sub> Annual Trading Program that applies to a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR designated representative of a CAIR NO<sub>X</sub> unit or the CAIR NO<sub>X</sub> u

### Effect on Other Authorities.

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

### CAIR SO₂ TRADING PROGRAM

#### CAIR Part Requirements.

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

### Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR SO₂ source and each SO₂ CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96, Subpart HHH, and Rule 62-298.470, F.A.C. (2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO₂ source with the following CAIR SO₂ Emission Requirements.

#### SO<sub>2</sub> Emission Requirements.

- (1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit at (1) As of the allowance transfer deadline for a control period, the dweets and operators of each CARS Cog source and each CARS Cog, that at the source's compliance account, a tonnage equivalent in CARS Cog allowances evailable for compliance deductions for the control period, as determined in accordance with 40 CFR 98.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SOg units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.

  (2) A CAIR SOg 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
- (3) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO<sub>2</sub> Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was ellocated.

  (4) CAIR SO<sub>2</sub> allowances shall be held in, deducted from, or transferred into or among CAIR SO<sub>2</sub> Allowance Tracking System accounts in
- accordance with 40 CFR Part 96, Subparts FFF and GGG.
- (5) A CAIR SO, allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO, Trading Program. No provision of the CAIR SO<sub>2</sub> 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<sub>2</sub> 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 e CAIR SO<sub>2</sub> allowance to or from a CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO<sub>2</sub> unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO<sub>2</sub> 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

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

Effective: 3/16/08

3

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(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

#### Hardee Power Station

Plant Name (from STEP 1)

#### Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the CAIR SO2 source and each CAIR SO2 unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.
- (i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO<sub>2</sub> unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and the source and ail occuments that demonstrate the trunt of the statements in the certificate or representation, provided that the certificate decoments shall be retained on site at the source beyond such 5-year period until such documents ere 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, 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.

  (II) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading

- (iv) Copies of ell documents used to complete a CAIR Part form and any other submission under the CAIR SO₂ Trading Program or to
- demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> trading Program.

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

### Liability.

- (1) Each CAIR SO<sub>2</sub> source and each CAIR SO<sub>2</sub> unit shall meet the requirements of the CAIR SO<sub>2</sub> Trading Program.

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

  (3) Any provision of the CAIR SO<sub>2</sub> Trading Program that applies to a CAIR SO<sub>2</sub> unit or the CAIR designated representative of a CAIR SO<sub>2</sub> unit shall also apply to the owners and operators of such unit.

#### Effect on Other Authorities.

No provision of the CAIR SO<sub>2</sub> 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<sub>2</sub> source or CAIR SO<sub>2</sub> 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. OZONE SEASON TRADING PROGRAM

### CAIR Part Requirements.

- The CAIR designated representative of each CAIR  $NO_x$  Ozone Season source end 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 adlines specified in Rule 62-213.420, F.A.C.; and (ii) [Reserved];
- The owners and operators of each CAIR NO, Ozone Season source required to have a Title V operating permit or air construction permit, and each CAIR NO<sub>X</sub> Ozone Season unit required to have a Title V operating permit or air construction permit, and each CAIR NO<sub>X</sub> Ozone Season unit required to have a Title V operating permit or air construction permit are construction permit or air construction p

### Monitoring, Reporting, and Recordkeeping Requirements.

- (1) The owners and operators, and the CAIR designated representative, of each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> 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 end reported in accordance with 40 CFR Part 96, Subpart HHHH, shall be used to determine compliance by each CAIR NO<sub>x</sub> Ozone Season source with the following CAIR NO<sub>x</sub> Ozone Season Emissions Requirements.

### NOx Ozone Season Emission Requirements.

- (1) As of the ellowance transfer deadline for a control period, the owners and operators of each CAIR NO<sub>X</sub> Ozone Season source and each CAIR NO<sub>X</sub> Ozone Season unit at the source shall hold, in the source's comptience account, CAIR NO<sub>X</sub> Ozone Season allowances evallable for compliance deductions for the control period under 40 CFR 96.354(a) in an amount not less than the tons of total NO<sub>X</sub> emissi period from all CAIR NO<sub>x</sub> Ozone Season units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHHH.

  (2) A CAIR NO<sub>x</sub> Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO, Ozone Season Emission R
- 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) ch control period thereafter.
- (3) A CAIR NO<sub>X</sub> Ozone Season ellowance shall not be deducted, for compliance with the requirements under paragraph (1) of the NO<sub>X</sub> Ozone Season Emission Requirements, for a control period in a calendar year before the year for which the CAIR NO<sub>X</sub> Ozone Season allowance was
- (4) CAIR NO<sub>X</sub> Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NO<sub>X</sub> Ozone Season Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFFF and GGGG.

  (5) A CAIR NO<sub>X</sub> Ozone Season allowance is a limited authorization to emit one ton of NO<sub>X</sub> in accordance with the CAIR NO<sub>X</sub> Ozone Season
- Trading Program, No provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program, the CAIR Part, or an exemption under 40 CFR 96.305 and no

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

Effective: 3/16/08

4

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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<sub>X</sub> Ozone Season allowance does not constitute a property right.

(7) Upon recordation by the Administrator under 40 CFR Part 86, Subpart EEEE, FFFF or GGGG, every allocation, transfer, or deduction of a CAIR NO<sub>X</sub> Ozone Season allowance to or from a CAIR NO<sub>X</sub> Ozone Season unit's compliance ecoount is incorporated automatically in any CAIR Part of the source that includes the CAIR NO<sub>x</sub> Ozone Season unit.

#### STEP 3. Continued

Hardee Power Station	
Plant Name (from STEP 1)	

#### Excess Emissions Requirements.

If a CAIR NO<sub>x</sub> Ozone Season source emits NO<sub>x</sub> during any control period in excess of the CAIR NO<sub>x</sub> Ozone Season emissions limitation, then:
(1) The owners and operators of the source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall surrender the CAIR NO<sub>x</sub> Ozone Season allowances required for deduction under 40 CFR 98,354(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 Regulrements.

- (1) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> 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<sub>X</sub> 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<sub>x</sub> Ozone Season Trading Program.
- (IV) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO<sub>X</sub> Ozone Season Trading
- Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.

  (2) The CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit at the source shall submit the reports required under the CAIR NO<sub>X</sub> Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

- (1) Each CAIR NO<sub>x</sub> Ozone Season source and each CAIR NO<sub>x</sub> Ozone Season unit shall meet the requirements of the CAIR NO<sub>x</sub> Ozone Season Trading Program.

  (2) Any provision of the CAIR NO<sub>X</sub> Ozone Season Trading Program that epplies to a CAIR NO<sub>X</sub> Ozone Season source or the CAIR designated
- 1..., processon and the Community or the CAIR designate representative of a CAIR NO<sub>X</sub> Ozone Season source shall also epply to the owners and operators of such source and of the CAIR NO<sub>X</sub> Ozone Season units at the source.
- (3) Any provision of the CAIR NO<sub>x</sub> Ozone Season Trading Program that applies to a CAIR NO<sub>x</sub> Ozone Season unit or the CAIR designated representative of a CAIR NO<sub>x</sub> Ozone Season unit shall also apply to the owners and operators of such unit.

# Effect on Other Authorities.

No provision of the CAIR NO<sub>x</sub> 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<sub>x</sub> Ozone Season source or CAIR NO<sub>x</sub>. Ozone Season unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

#### STEP 4

### Certification (for designated representative or alternate designated representative only)

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

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

Raiph E. Randall Name	Plant Manager Title	
Hardee Power Partners Limited Owner Company Name		
(863) 375-3266 Phone	rrandall@invenergyllc.com E-mail address	
Signature Kirgh & River	delp	Date 5/10/09
		1

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

Effective: 3/16/08

5

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# SECTION VI. APPENDICES

Appendix A. Abbreviations, Acronyms, Citations and Identification Numbers

Appendix CAM. Compliance Assurance Monitoring Plan

Appendix CFM. NSPS Custom Fuel Monitoring Plan

Appendix CR. Common Regulatory Requirements

Appendix G-1. Manufacturer's Performance Curves

Appendix GG. NSPS Subpart GG for Stationary Gas Turbines

Appendix I. Insignificant Activities

Appendix NS. NSPS Subpart A for General Provisions

Appendix RR. Facility-Wide Reporting Requirements

Appendix TR. Facility-Wide Testing Requirements

Appendix TV. Title V General Conditions

Appendix U. Unregulated Activities

Appendix ZZZZ. NESHAP Subpart ZZZZ for Stationary Compression Ignition Internal Combustion Engines

To:

Ralph Randall

Cc:

'Tom Davis'; Zhang-Torres; Halpin, Mike; abrams.heather@epamail.epa.gov;

'Forney.Kathleen@epamail.epa.gov'; 'Oquendo.Ana@epamail.epa.gov'; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR); Livingston, Sylvia

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Attachments:

Subject:

0490015011AV012ACSignedNoticeofFinalPermit.pdf

### Dear Sir/ Madam:

Attached is the official **Notice of Final Permit** for the project referenced below. Click on the link displayed below to access the permit project documents and send a "reply" message verifying receipt of the document(s) provided in the link; this may be done by selecting "Reply" on the menu bar of your e-mail software, noting that you can view the documents, and then selecting "Send".

Note: We must receive verification that you are able to access the documents. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).

Click on the following link to access the permit project documents: http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf\_permit\_zip\_files/0490015.011.AV.F\_pdf.zip\_

Click on the following link to access the permit project documents: <a href="http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf">http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf</a> permit zip files/0490015.012.AC.F pdf.zip

Attention: Christy DeVore

Owner/Company Name: HARDEE POWER PARTNERS LIMITED

Facility Name: HARDEE POWER STATION

Project Number: 0490015-011-AV/0490015-012-AC

Permit Status: FINAL

Permit Activity: PERMIT RENEWAL/PERMIT REVISION

Facility County: HARDEE

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Access these documents by clicking on the link provided above, or search for other project documents using the "Air Permit Documents Search" website at <a href="http://www.dep.state.fl.us/air/emission/apds/default.asp">http://www.dep.state.fl.us/air/emission/apds/default.asp</a> . "

Permit project documents that are addressed in this email may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible, and verify that they are accessible. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record. If you have any problems opening the documents or would like further information, please contact the Florida Department of Environmental Protection, Bureau of Air Regulation.

Barbara Friday
Bureau of Air Regulation

Division of Air Resource Management (DARM) (850)921-9524

From:

System Administrator

To:

Ralph Randall

Sent:

Monday, December 14, 2009 2:27 PM

Subject:

Delivered: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

### Your message

To: F

Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was delivered to the following recipient(s):

Ralph Randall on 12/14/2009 2:26 PM

From:

Randall, Ralph [RRandall@invenergyllc.com]

To:

Friday, Barbara

Sent:

Monday, December 14, 2009 2:30 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

Your message

To:

RRandall@invenergyllc.com

Subject:

was read on 12/14/2009 2:30 PM.

From:

Randall, Ralph [RRandall@invenergyllc.com]

Sent:

Monday, December 14, 2009 2:52 PM

To:

Friday, Barbara

Subject:

RE: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

We can view the documents. Thanks.

Ralph Randall Plant Manager Hardee Power Station 813-630-6562

rrandall@invenergyllc.com

This electronic message and all contents contain information which may be privileged, confidential or otherwise protected from disclosure. The information is intended to be for the addressee(s) only. If you are not an addressee, any disclosure, copy, distribution or use of the contents of this message is prohibited. If you have received this electronic message in error, please notify the sender by reply e-mail and destroy the original message and all copies.

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]

Sent: Monday, December 14, 2009 2:26 PM

To: Randall, Ralph

**Cc:** Tom Davis; Zhang-Torres; Halpin, Mike; abrams.heather@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth

(AIR); Livingston, Sylvia

Subject: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-AV/0490015-012-AC

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http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf permit zip files/0490015.011.AV.F pdf.zip

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf permit zip files/0490015.012.AC.F pdf.zip

Attention: Christy DeVore

Owner/Company Name: HARDEE POWER PARTNERS LIMITED

Facility Name: HARDEE POWER STATION

Project Number: 0490015-011-AV/0490015-012-AC

Permit Status: FINAL

Permit Activity: PERMIT RENEWAL/PERMIT REVISION

Facility County: HARDEE

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Barbara Friday Bureau of Air Regulation Division of Air Resource Management (DARM) (850)921-9524

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

From:

Exchange Administrator

Sent:

Monday, December 14, 2009 2:26 PM

To:

Friday, Barbara

Subject:

Delivery Status Notification (Relay)

Attachments:

ATT830225.txt; HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

This is an automatically generated Delivery Status Notification.

Your message has been successfully relayed to the following recipients, but the requested delivery status notifications may not be generated by the destination.

tdavis@ectinc.com

From:

Tom Davis [tdavis@ectinc.com]

Sent:

Monday, December 14, 2009 2:59 PM

To:

Friday, Barbara

Subject:

RE: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Barbara,

I have received and can access the documents referenced in your email below.

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]

Sent: Monday, December 14, 2009 2:26 PM

To: Ralph Randall

**Cc:** Tom Davis; Zhang-Torres; Halpin, Mike; abrams.heather@epamail.epa.gov; Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria; DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth

\(AIR\); Livingston, Sylvia

Subject: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-AV/0490015-012-AC

Dear Sir/ Madam:

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http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf permit zip files/0490015.011.AV.F pdf.zip

Click on the following link to access the permit project documents:

http://ARM-PERMIT2K.dep.state.fl.us/adh/prod/pdf permit zip files/0490015.012.AC.F pdf.zip

Attention: Christy DeVore

Owner/Company Name: HARDEE POWER PARTNERS LIMITED

Facility Name: HARDEE POWER STATION

Project Number: 0490015-011-AV/0490015-012-AC

Permit Status: FINAL

Permit Activity: PERMIT RENEWAL/PERMIT REVISION

Facility County: HARDEE

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Barbara Friday Bureau of Air Regulation Division of Air Resource Management (DARM) (850)921-9524

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From:

System Administrator

To:

Zhang-Torres; Gibson, Victoria

Sent:

Monday, December 14, 2009 2:26 PM

Subject:

Delivered: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To:

Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was delivered to the following recipient(s):

Zhang-Torres on 12/14/2009 2:26 PM Gibson, Victoria on 12/14/2009 2:26 PM

From: Zhang-Torres
To: Friday, Barbara

Sent: Monday, December 14, 2009 2:50 PM

Subject: Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc: Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 2:50 PM.

From: To: Gibson, Victoria Friday, Barbara

Sent:

Monday, December 14, 2009 2:27 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 2:27 PM.

From:

Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]

Sent:

Monday, December 14, 2009 2:26 PM

To:

Friday, Barbara

Subject: Attachments: Successful Mail Delivery Report Delivery report; Message Headers

This is the mail system at host mseive01.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<<u>Forney.Kathleen@epamail.epa.gov</u>>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4B269161 2860 97708 1 37DB8442D1

<<u>Oquendo.Ana@epamail.epa.gov</u>>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4B269161 2860\_97708 1 37DB8442D1

<abrams.heather@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 4B269161\_2860\_97708\_1 37DB8442D1

From:

System Administrator

To:

DeVore, Christy; Koerner, Jeff

Sent:

Monday, December 14, 2009 2:26 PM

Subject:

Delivered: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

### Your message

To:

Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <u>abrams.heather@epamail.epa.gov</u>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was delivered to the following recipient(s):

DeVore, Christy on 12/14/2009 2:26 PM Koerner, Jeff on 12/14/2009 2:26 PM

From: To: DeVore, Christy Friday, Barbara

Sent:

Monday, December 14, 2009 2:30 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 2:30 PM.

From:

Koerner, Jeff Friday, Barbara

To: Sent:

Monday, December 14, 2009 3:23 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 3:23 PM.

From:

System Administrator

To:

Halpin, Mike; Holtom, Jonathan; Walker, Elizabeth (AIR); Livingston, Sylvia

Sent:

Monday, December 14, 2009 2:26 PM

Subject:

Delivered: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was delivered to the following recipient(s):

Halpin, Mike on 12/14/2009 2:26 PM

Holtom, Jonathan on 12/14/2009 2:26 PM

Walker, Elizabeth (AIR) on 12/14/2009 2:26 PM

Livingston, Sylvia on 12/14/2009 2:26 PM

From: Halpin, Mike

Sent: Monday, December 14, 2009 2:35 PM

To: Friday, Barbara

Subject: Delivered: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

Attachments: ATT831112.txt

Your message was delivered to the recipient.

From:

Halpin, Mike

To:

Friday, Barbara

Sent:

Monday, December 14, 2009 2:32 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

Ralph Randall To:

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

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AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 2:32 PM.

From: To:

Holtom, Jonathan

Sent:

Friday, Barbara

Monday, December 14, 2009 2:27 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To: Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 2:27 PM.

From: To: Livingston, Sylvia

Sent:

Friday, Barbara Monday, December 14, 2009 3:19 PM

Subject:

Read: HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION;

0490015-011-AV/0490015-012-AC

# Your message

To:

Ralph Randall

Cc:

Tom Davis; Zhang-Torres; Halpin, Mike; <a href="mailto:abrams.heather@epamail.epa.gov">abrams.heather@epamail.epa.gov</a>;

Forney.Kathleen@epamail.epa.gov; Oquendo.Ana@epamail.epa.gov; Gibson, Victoria;

DeVore, Christy; Holtom, Jonathan; Koerner, Jeff; Walker, Elizabeth (AIR);

Livingston, Sylvia

Subject:

HARDEE POWER PARTNERS LIMITED - HARDEE POWER STATION; 0490015-011-

AV/0490015-012-AC

Sent: 12/14/2009 2:26 PM

was read on 12/14/2009 3:19 PM.