Shady Hills Power Company, LLC
Shady Hills Generating Station

Facility ID No. 1010373
Pasco County

Title V Air Operation Permit Renewal

Permit No. 1010373-013-AV
(Renewal of Title V Air Operation Permit No. 1010373-010-AV)

Revised Draft/Proposed Permit

Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road
Mail Station #5505
Tallahassee, Florida 32399-2400

Telephone: (850) 717-9000
Fax: (850) 717-9097

Compliance Authority:

Department of Environmental Protection
Southwest District Office
Air Resource Section
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: (813) 632-7600
Facsimile: (813) 632-7665

Title V Air Operation Permit Renewal

Permit No. 1010373-013-AV

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DRAFT/PROPOSED PERMIT

PERMITTEE:

Shady Hills Power Company, LLC
14240 Merchant Energy Way
Spring Hill, Florida 34610

Permit No. 1010373-013-AV
Shady Hills Generating Station
Facility ID No. 1010373
Title V Air Operation Permit

The purpose of this permit is to renew the Title V air operation permit for the existing Shady Hills Generating Station, which is a simple-cycle combustion turbine power plant. The facility is located in Pasco County at 14240 Merchant Energy Way, Shady Hills, Florida. The map coordinates are: UTM Zone 17, 347.0 kilometers East and 3139.0 kilometers North; Latitude 28° 22' 00" North and Longitude 82° 33' 30" 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, 2013
Renewal Application Due Date: May 20, 2017
Expiration Date: December 31, 2017

Executed in Tallahassee, Florida.
(Electronic Signature)

(DRAFT/PROPOSED)

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Subsection A. Facility Description.

The existing Shady Hills Generating Station consists of the following equipment: three, dual-fuel, nominal 170-megawatt (MW) General Electric Frame 7FA combustion turbine-electrical generators (Model PG 7241FA); and one 2.8-million gallon distillate oil storage tank. The combustion turbines operate in simple-cycle peaking and intermittent-duty modes and are authorized to fire natural gas and distillate oil. To reduce emissions of nitrogen oxides (NOx), the combustion turbines are equipped with dry low-NOx combustors for gas firing and water injection for oil firing. Compliance with the NOx emission standard is demonstrated with a continuous emissions monitoring system.

Subsection B. Summary of Emissions Units.

EU No.	Emission Unit Description
Regulated Emissions Units	
001	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
002	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
003	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
010	Natural Gas Fuel Heater, 10 million British thermal units per hour (MMBtu/hour)
Unregulated Emissions Units	
004	2.8 million gallon distillate oil tank

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I – List of Insignificant Emissions Units and/or Activities).

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received May 18, 2012, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of the primary applicable regulations is shown in the following table.

Regulation	EU Nos.
Federal Rule Citations	
40 CFR 60, Subpart A, NSPS General Provisions	001, 002, 003, and 010
40 CFR 60, Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units	010
40 CFR 60, Subpart KKKK - Standards of Performance for Stationary Combustion Turbines	001, 002 and 003
40 CFR 75 Acid Rain Monitoring Provisions	001, 002 and 003
State Rule Citations	
Rule 62-210.300, F.A.C., Permits Required	001, 002, 003, and 010
Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD) of Air Quality	001, 002, 003, and 010
Chapter 62-213, F.A.C., Operation Permits for Major Sources of Air Pollution	001, 002, 003, and 010
Chapter 62-214, F.A.C., Requirements For Sources Subject to the Federal Acid Rain Program	001, 002 and 003
Rule 62-296.470, F.A.C., Implementation Federal Clean Air Interstate Rule	001, 002, 003
Chapter 62-297, F.A.C., Stationary Sources Emissions Monitoring	001, 002, 003, and 010

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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. Unless otherwise indicated, each Appendices is an enforceable part of this permit. [Rule 62-213.440, F.A.C.]

Emissions and Controls

FW2. 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.]

FW3. 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. [Rule 62-296.320(1), F.A.C.]

FW4. 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. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW5. 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. Landscaping or planting of vegetation.
c. Use of hoods, fans, filters, and similar equipment to contain, capture, and/or vent particulate matter (for sand-blasting).
d. Confining abrasive blasting where possible.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received May 18, 2012.]

Annual Reports and Fees

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

FW6. 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 1st of each year. [Rule 62-210.370(3), F.A.C.]

FW7. Annual Emissions Fee Form and Fee. The annual Title V emissions fees are due (postmarked) by March 1st of each year. The completed form and calculated fee shall be submitted to: Major Air Pollution Source Annual Emissions Fee, P.O. Box 3070, Tallahassee, Florida 32315-3070. The forms are available for download by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rule 62-213.205, F.A.C.]

FW8. 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.]

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FW9. 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]

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Subsection A. Combustion Turbines (EU-001, 002, And 003)

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

EU Nos.	Brief Description
001 002 003	Each unit is a combustion turbine-electrical generator rated at a nominal 170 megawatts consisting of a General Electric Model PG 7241FA. Each unit can operate in simple-cycle and intermittent-duty modes. To control NOx emissions, each unit is equipped with dry low-NOx combustor technology for firing natural gas and water injection for firing distillate oil. A CEMS is used to continuously monitor and record NOx emissions for determining compliance with NOx standards. The initial startup date for EU-001was 03/15/2002. The initial startup date for EU-002 and EU-003 was 03/19/2002. Each unit exhausts through a separate stack that is 18 feet in diameter and 75 feet tall with a volumetric flow rate of approximately 2,645,000 actual cubic feet per minute at a temperature of 1113° F. The design heat input rating of each unit is 1704 MMBtu/hour when firing natural gas and 1889 MMBtu/hour when firing distillate oil based on a compressor inlet air temperature of 59° F, 60% relative humidity, a pressure of 14.7 psi, 100% load, and the lower heating value (LHV) of each fuel (950 Btu per cubic feet of natural gas and 132 MMBtu per thousand gallons of distillate oil). Actual heat input rate will vary depending upon gas turbine characteristics, ambient conditions, and evaporative cooling.

These emissions units are regulated in accordance with: Subpart KKKK in 40 CFR 60, Standards of Performance for Stationary Combustion Turbines, adopted by reference in Rule 62-204.800, F.A.C.; 40 CFR 75 and Chapter 62-214, F.A.C. for Acid Rain Phase II Units; and Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality, including a determination of Best Available Control Technology (BACT) for NOx, carbon monoxide (CO), sulfur dioxide (SO_2), particulate matter (PM), and PM with a mean aerodynamic diameter of 10 microns or less (PM_{10}) as established in Permit No. PSD-FL-280, as modified and subsequent revisions. The initial construction avoided PSD review for volatile organic compounds (VOC). Since compliance with the NOx emission standard is demonstrated by CEMS, a Compliance Assurance Monitoring (CAM) plan is not required.

Essential Potential to Emit (PTE) Parameters

A.1. Methods of Operation - Fuels. Only pipeline natural gas and distillate oil meeting the fuel sulfur specifications under "Emission Limitations and Standards" shall be fired in these units. The amount of back-up fuel (distillate oil) fired in these three units (in Btu's) shall not exceed the amount of natural gas (primary fuel) fired in these three units (in Btu's) during any consecutive 12-month period. [Rule 62-210.200(PTE), F.A.C.; and PSD-FL-280, as modified]

A.2. Hours of Operation. During any calendar year, the stationary gas turbines are allowed to operate an average of 3,390 hours per unit, including an average of 1,000 hours per unit on distillate oil. No single combustion turbine shall operate more than 5,000 hours in a single year. [Rules 62-210.200(PTE) and 62-212.400(BACT), F.A.C.; PSD-FL-280, as modified]

A.3. Emissions Units Operating Rate Limitation After Testing. Based on the unit operating rate during compliance testing, the operating rate of an emissions unit may be restricted. See Appendix STR (Stack Testing Requirements). [Rule 62-297.310(2), F.A.C.]

Control Technology

A.4. Dry Low-NOx Combustors. Each unit shall be equipped with dry low-NOx combustors (DLN-2.6 or equivalent) to control NOx emissions while firing natural gas. Consistent with normal operation and maintenance practices, each dry low-NOx combustor system shall be tuned to optimize emissions reductions and shall be maintained to minimize NOx and CO emissions. Operation in the diffusion-firing mode when firing natural gas shall be minimized. [Rule 62-212.400(BACT), F.A.C.; and PSD-FL-280, as modified]

A.5. Water Injection System. Each unit shall be equipped with a water injection system to control NOx emissions when firing distillate oil. The units shall be operated with a water-to-fuel ratio that ensures

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compliance with the NOx standard when firing distillate oil. [Rule 62-212.400(BACT), F.A.C.; and PSD-FL-280, as modified]

Training Requirement

A.6. Operating Procedures. Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment.
[Rule 62-4.070(3), F.A.C.; and 1010373-001-AC]

A.7. Source Obligation. In accordance with Rule 62-212.400(12), F.A.C. (and 40 CFR 51.166(j)(4)), the BACT determination shall be reviewed and modified as appropriate in the event of a plant conversion. This paragraph states: "For phased construction project, the determination of best available control technology shall be reviewed and modified as appropriate at the latest reasonable time which occurs no later than 18 months prior to commencement of construction of each independent phase of the project. At such time, the owner or operator of the applicable stationary source may be required to demonstrate the adequacy of any previous determination of best available control technology for the source." This assessment will also be conducted for this project if there are any increases in heat input limits, hours of operation, oil firing, low-load or base-load operation (e.g., conversion to combined-cycle operation), short-term or annual emission limits, annual fuel heat input limits or similar changes. [40 CFR 51.166(j)(4); Rule 62-212.400(12), F.A.C.; and PSD-FL-280, as modified]

Emission Limitations and Standards

{Permitting Note: Unless otherwise specified, the averaging times for the emission limitations are based on the specified averaging time of the applicable test method.}

A.8. Emissions Summary. The following is a summary of the emission limits and required control technology. These limits, or the equivalent in terms of lb/hour or NSPS units, are followed by the applicable specific conditions.

Pollutant	Control Technology	Emission Limit
Particulate Matter (PM/PM_{10})	Authorized Fuels Good Combustion	Fuel Sulfur Specifications Opacity Standard (Surrogate)
Visible Emissions	Authorized Fuels Good Combustion	10% opacity (gas or oil)
Volatile Organic Compounds (VOC) *(not subject to PSD)*	Authorized Fuels Good Combustion	1.4 ppmvd (gas) 7 ppmvw (oil)
Carbon Monoxide (CO)	Authorized Fuels Good Combustion	12 ppmvd (gas) 20 ppmvd (oil)
Sulfur Dioxide (SO_2) and Sulfuric Acid Mist (SAM)	Authorized Fuels Distillate Oil	<1 grain sulfur/100 scf (gas) ≤ 0.05% sulfur by weight (oil)
Nitrogen Oxides (NOx)	Dry Low-NOx for Natural Gas Wet Injection W/Limited Use for Oil	BACT Standards: 9 ppmvd @ 15% O_2 (gas), 24-hour avg. 42 ppmvd @ 15% O_2 (oil), 3-hour avg. NSPS KKKK Standards (4-hour rolling avg.): 15 ppmvd at 15% O_2 (gas) 42 ppmvd @ 15% O_2 (oil) 96 ppm at 15% O2 (< 75% peak load)

[Rules 62-212.400(BACT) and 62-210.200(PTE) F.A.C.; and 1010373-001-AC]

A.9. SO_2 and PM/PM_{10} Emissions - Fuel Sulfur Specifications. As work practice standards to control SO_2 and PM/PM_{10} emissions, fuels shall comply with the following fuel sulfur specifications.

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a. *Natural Gas*. The sulfur content of the pipeline natural gas shall be less than 1 grain sulfur per 100 standard cubic feet.

b. *Distillate Oil*. The maximum sulfur content of distillate oil is 0.05% by weight.

Compliance shall be determined by fuel analyses and record keeping. *{Permitting Note: These fuel sulfur specifications are more stringent than the NSPS SO_2 limits and assure compliance with the federal standards. At peak load and ISO conditions, maximum SO_2 emissions based on these specifications are estimated to be 5 lb/hour (natural gas) and 98.7 lb/hour (distillate oil). At peak load and ISO conditions, maximum PM/PM_{10} emissions based on these specifications are estimated to be 10 lb/hour (natural gas) and 17 lb/hour (distillate oil).}* [Rule 62-212.400(BACT), F.A.C.; and PSD-FL-280, as modified]

A.10. Visible Emissions. Emissions of PM/PM_{10} shall be controlled by complying with the allowable fuel sulfur specifications. As a surrogate for particulate matter, visible emissions from each unit shall not exceed 10% opacity as determined by EPA Method 9. [Rule 62-212.400(BACT), F.A.C.; and PSD-FL-280, as modified]

A.11. NOx Emissions - BACT.

a. *Natural Gas*. As demonstrated by continuous monitor, NOx emissions from each unit shall not exceed 9 ppmvd @ 15% O_2 based on a on a 24-hour block average of only the valid hours during which the unit is operated. In addition, NOx emissions at ISO conditions (calculated as NO_2) from each unit shall not exceed 64.1 lb/hour to be demonstrated if requested by the Department.

b. *Distillate Oil*. As demonstrated by continuous monitor, NOx emissions from each unit shall not exceed 42 ppmvd at 15% O_2 based on a 3-hour average of only valid hour hours during which the unit is actually operated. In addition, NOx emissions at ISO conditions (calculated as NO_2) shall not exceed 351 lb/hour to be demonstrated if requested by the Department.

c. *Reduction Plan*. The permittee shall develop a NOx reduction plan when the hours of oil firing reach 1,000 hours per year on any combustion turbine. This plan shall include a testing protocol designed to establish the maximum water injection rate and the lowest NOx emissions possible without affecting the actual performance of the gas turbine. The testing protocol shall set a range of water injection rates and attempt to quantify the corresponding NOx emissions for each rate and noting any problems with performance. Based on the test results, the plan shall recommend a new NOx emissions limiting standard and shall be submitted to the Department's Bureau of Air Regulation and Compliance Authority for review. If the Department determines that a lower NOx emissions standard is warranted for oil firing, this permit shall be revised. *{Permitting Note: To date, no unit has fired fuel oil for 1,000 hours or more in a year.}*

[PSD-FL-280, as modified; Rule 62-212.400(BACT), F.A.C.]

A.12. NOx Emissions – NSPS Subpart KKKK.

a. *Natural Gas*. Emissions of NOx from each unit shall not exceed 15 ppmvd @ 15% O_2.

b. *Distillate Oil*. Emissions of NOx from each unit shall not exceed 42 ppmvd at 15% O_2.

c. *Stationary Turbines with a Peak Load > 30 MW Output when Operating at Less Than 75% of Peak Load*: 96 ppm at 15% O_2.

d. *Excess Emissions Reporting*. For simple cycle units without heat recovery, use the calculated hourly average emission rates from paragraph Sec. 60.4350(f) of this section to assess excess emissions on a 4-hour rolling average basis, as described in Sec. 60.4380(b)(1).

[NSPS Subpart KKKK in 40 CFR 60, Table 1. to Subpart KKKK of Part 60, and Section 60.4350(g); and Rule 62-204.800, F.A.C.]

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A.13. CO Emissions. As determined by EPA Method 10:

a. *Natural Gas*. Emissions of CO from each unit shall not exceed 12 ppmvd and 42.5 lb/hour (at ISO conditions).

b. *Distillate Oil*. Emissions of CO from each unit shall not exceed 20 ppmvd and 71.4 lb/hour (at ISO conditions).

[Rule 62-212.400(BACT), F.A.C.; and PSD-FL-280, as modified]

A.14. VOC Emissions. As determined by initial stack test using EPA Method 18, 25 or 25A:

a. *Natural Gas.* Emissions of VOC from each unit shall not exceed 1.4 ppmvd and 2.8 lb/hour (at ISO conditions).

b. *Distillate Oil*. Emissions of VOC from each unit shall not exceed 7 ppmvd and 16.2 lb/hour (at ISO conditions).

The initial test requirement has been satisfied. [Rule 62-212.400(12)(Source Obligation), F.A.C.; and PSD-FL-280, as modified]

Excess Emissions for BACT/SIP Standards

The following conditions apply only to the BACT standards or other standards established by the State Implementation Plan (SIP). Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

A.15. Definitions.

a. *Startup* is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.

b. *Shutdown* is the cessation of the operation of an emissions unit for any purpose.

c. *Malfunction* is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.

[Rule 62-210.200(Definitions), F.A.C.]

A.16. Excess Emissions Prohibited – BACT/SIP. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.; and, Permit No. PSD-FL-280, as modified]

A.17. Excess Emissions Allowed – BACT/SIP. For all pollutants except NOx, excess emissions from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed 120 minutes in any 24-hour period unless specifically authorized by the Department for longer duration. Operation below 50% output shall be limited to 120 minutes per unit cycle (breaker closed to breaker open). Since NOx emissions are continuously monitored, excess emissions will be handled by allowing limited data exclusion in accordance with the following conditions in this section. [Rule 62-210.700(1), F.A.C.; and, Permit No. PSD-FL-280, as modified]

A.18. NOx Data Exclusion Procedures for SIP Compliance. As per the procedures in this condition, limited amounts of CEMS NOx emissions data, as specified in this section, may be excluded from the corresponding SIP-based compliance demonstration, provided that best operational practices to minimize emissions are adhered to, the duration of data excluded is minimized, and the procedures for data exclusion listed below are

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followed. As provided by the Department's authority in Rule 62-210.700(5), F.A.C., the following provisions are adjustments to maximum and minimum factors in Rule 62-210.700(1), F.A.C.

a. *Limiting Data Exclusion*. If the compliance calculation using all valid CEMS emission data indicates that the emission unit is in compliance, then no CEMS data shall be excluded from the compliance demonstration.

b. *Event-Driven Exclusion*. There must be an underlying event (startup, shutdown, malfunction, DLN tuning, or fuel switching) in order to exclude data. If there is no underlying event, then no data may be excluded.

c. *Continuous Exclusion*. Data shall be excluded on a continuous basis. Data from discontinuous periods shall not be excluded for the same underlying event.

[Rule 62-210.700, F.A.C.]

A.19. Allowable NOx Data Exclusions. The following NOx data may be excluded from the corresponding SIP-based compliance demonstration for each of the events listed below in accordance with the Data Exclusion Procedures identified above. *{Permitting Note: The following conditions apply only to the SIP-based NOx emissions standards specified in this section. These requirements cannot vary or supersede any federal provision of the NSPS or Acid Rain programs. Additional reporting and monitoring may be required by the individual subparts.}*

a. *Startup and Shutdown:* Up to 60 minutes of CEMS data may be excluded for each combustion turbine startup and shutdown cycle. For startups and shutdowns of less than 60 minutes in duration, only those minutes attributable to startup and shutdown may be excluded.

b. *Malfunction*: Up to 120 minutes (in any operating day) of CEMS data may be excluded due to a documented malfunction. A "documented malfunction" means a malfunction that is documented within one working day of detection by contacting the Compliance Authority by telephone, facsimile transmittal, or electronic email.

c. *DLN Tuning*: CEMS data collected during initial or other DLN tuning sessions may be excluded from the compliance demonstrations provided the tuning session is performed in accordance with the manufacturer's specifications or determined best industry practices. Prior to performing any tuning session, the permittee shall provide the Compliance Authority with an advance notice that details the activity and proposed tuning schedule. The notice may be by telephone, facsimile transmittal, or electronic mail. [Design; Rule 62-4.070(3), F.A.C.]

d. *Fuel Switching*: Up to 60 minutes of CEMS data may be excluded for each fuel switch. For fuel switches of less than 60 minutes in duration, only those minutes attributable to fuel switching may be excluded.

All valid emissions data (including data collected during startup, shutdown, malfunction, DLN tuning, and fuel switching) shall be used to report emissions for the Annual Operating Report. [Rules 62-210.200(BACT), 62-210.370, and 62-210.700, F.A.C.]

Monitoring of Operations

A.20. Natural Gas Custom Fuel Monitoring Schedule. The permittee shall comply with the fuel sulfur monitoring provisions in 40 CFR 60.4370 in NSPS Subpart KKKK or with the following custom fuel monitoring schedule pursuant to 40 CFR 75 Appendix D for natural gas may be used as long as the following conditions are met:

a. The permittee shall use a primary fuel of pipeline supplied natural gas (sulfur content less than 1 grain sulfur/100 scf pursuant to 40 CFR 75.11(d)(2)).

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b. Each unit shall be monitored for SO_2 emissions using methods consistent with the requirements of 40 CFR 75 and certified by the USEPA.

c. This custom fuel monitoring schedule will only be valid when pipeline natural gas is used as a primary fuel. If the primary fuel for these units is changed to a higher sulfur fuel, SO_2 emissions must be accounted for as required pursuant to 40 CFR 75.11(d).

d. The owner or operator shall monitor and maintain records of sulfur content of the natural gas pursuant to the custom fuel monitoring schedule. The records shall report total sulfur content in terms of grains of sulfur per hundred cubic feet (standard conditions) for natural gas. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

[PSD-FL-280, as modified and 40 CFR 60.4370 in NSPS Subpart KKKK]

A.21. Distillate Oil Monitoring Schedule. The permittee shall comply with the fuel sulfur monitoring provisions in 40 CFR 60.4370 in NSPS Subpart KKKK or with the following custom fuel monitoring schedule:

a. For all bulk shipments received at this facility, an analysis which reports the sulfur content (percent by weight) of the distillate oil shall be provided by the fuel vendor. The analysis shall also specify the methods by which the analysis was conducted. The following sulfur analysis methods are acceptable: ASTM D129-00, D2622-98, D4294-02, D1266-98, D5453-00 or D1552-01 (all of which are incorporated by reference, see 40 CFR 60.17). [PSD-FL-280, as modified]

Continuous Monitoring Requirements

A.22. NOx CEMS Data Requirements for BACT Standards. To demonstrate continuous compliance with the NOx emission standards, the permittee shall calibrate, maintain, and operate a CEMS to measure and record NOx emissions from each combustion turbine. The CEMS shall comply with the monitoring provisions of the federal acid program in 40 CFR 75. Compliance with the BACT standards shall be determined in accordance with the following provisions.

a. *Data Collection*: Except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emissions shall be monitored and recorded during all operation including startup, shutdown, and malfunction.

b. *Operating Hours and Operating Days*: An hour is the 60-minute period beginning at the top of each hour. Any hour during which an emissions unit is in operation for more than 15 minutes is an operating hour for that emission unit. A day is the 24-hour period from midnight to midnight. Any day with at least one operating hour for an emissions unit is an operating day for that emission unit.

c. *Valid Hour*: Each CEMS shall be designed and operated to sample, analyze, and record data evenly spaced over the hour at a minimum of one measurement per minute. All valid measurements collected during an hour shall be used to calculate a 1-hour block average that begins at the top of each hour.

(1) Hours that are **not operating** hours are **not valid** hours.

(2) For each operating hour, the 1-hour block average shall be computed from at least two data points separated by a minimum of 15 minutes. If less than two such data points are available, there is insufficient data and the 1-hour block average is not valid.

(3) During fuel switching an hour in which fuel oil is fired is attributed towards compliance with the permit standards for oil firing.

d. *24-hour Block Averages*: A 24-hour block shall begin at midnight of each operating day and shall be calculated from 24 consecutive valid hourly average concentration values. If a unit operates less than 24

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hours during the block, or there are less than 24 valid hourly averages available, the 24-hour block average shall be the average of all available valid hourly average concentration values for the 24-hour block. *{Permitting Note: For purposes of determining compliance with the 24-hour CEMS standards, the missing data substitution methodology of 40 CFR Part 75, Subpart D, shall not be utilized. Instead, the 24-hour block average shall be determined using the remaining hourly data in the 24-hour block and periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance reports. For example, the "24-hr block average" may consist of only 6 valid operating hours for the day.}*

e. *3-hour Rolling Averages*: A 3-hour rolling average is the arithmetic average of the average emission concentration measured by the CEMS for a given hour and the two unit operating hour average concentrations immediately preceding that unit operating hour.

f. *Data Exclusion*: Each CEMS shall monitor and record emissions during all operations including episodes of startup, shutdown, malfunction, DLN tuning, and fuel switches. Some of the CEMS emissions data recorded during these episodes may be excluded from the corresponding CEMS compliance demonstration subject to the provisions of this section. *{Permitting Note: Conditions related to data exclusion apply only to the SIP-based NO_x emissions standards specified in this section. These requirements cannot vary or supersede any federal provision of the NSPS or Acid Rain programs. Additional reporting and monitoring may be required by the individual subparts.}*

g. *Availability*: The quarterly excess emissions report shall identify monitor availability for each quarter in which the unit operated.

[Rules 62-4.070(3) and 62-210.200(BACT), F.A.C.; 1010373-014-AC/PSD-FL-280B; and 40 CFR 75]

Test Methods and Procedures

A.23. Test Methods. When 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 or 17	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
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
18	Measurement of Gaseous Organic Compound Emissions by Gas Chromatography
19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas
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-280, as modified]

A.24. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix STR, Stack Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.25. Annual Compliance Tests Required. Annual compliance tests for CO and visible emissions shall be conducted during each federal fiscal year (October 1st to September 30th) while firing natural gas. For each

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combustion turbine that fired distillate oil for more than 400 hours during the federal fiscal year, CO and visible emissions tests shall also be conducted while firing distillate oil. [Rules 62-4.070, 62-210.200(BACT), and 62-297.310(7)(a)4, F.A.C.]

A.26. Compliance Tests Prior To Renewal. Each unit shall be tested to demonstrate compliance with the CO and visible emissions standards prior to obtaining a renewed operation permit for such emissions unit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. *{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}* [Rules 62-210.300(2)(a) and 62-297.310(7)(a), F.A.C.]

Recordkeeping and Reporting Requirements

A.27. Excess Emissions Report. 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. In addition, the Department may request a written summary report of the incident. Following the NSPS format, 40 CFR 60.7, Subpart A, periods of startup, shutdown, malfunction, shall be monitored, recorded, and reported as excess emissions when emission levels exceed the permitted standards. When the CEMS reports NO_X emissions in excess of the BACT standards specified in this permit (ppmvd @ 15% O_2), the permittee shall notify the Compliance Authority within one working day (verbally) and follow up with a written explanation (email, facsimile, or letter) no later than three working days of discovery. [Rules 62-4.130, 62-204.800, 62-210.700(6), F.A.C.; 40 CFR 60.7; and PSD-FL-280, as modified]

A.28. Excess Emissions – NSPS Subpart KKKK. For excess emissions regarding the NSPS Subpart KKKK provisions, see Appendix 60-A (NSPS Subpart A - General Provisions) and Appendix 60-KKKK (NSPS Subpart KKKK – Standards of Performance for Stationary Combustion Turbines). [40 CFR 60.7 and 40 CFR 60, Subpart KKKK]

A.29. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

NSPS Provisions

A.30. NSPS Requirements. Each combustion turbine is subject to the applicable requirements in NSPS Subparts A and KKKK in 40 CFR 60. See Appendices 60-A and 60-KKKK of this permit. [Subparts A and KKKK in 40 CFR 60 and Rule 62-204.800, F.A.C.]

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Subsection B. Natural Gas Fuel Heater (EU-010)

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

EU No.	Brief Description
010	Natural gas fuel heater, 10 MMBtu/hour The purpose of this unit is to heat natural gas above dew point temperature and prevent condensation. Gas heaters of this size are subject to all applicable provisions in 40 CFR 60, Subpart Dc, for the Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units.

PERFORMANCE RESTRICTIONS

B.1. Natural Gas Heater: The permittee is authorized to operate and maintain one natural gas heater for the purpose of heating the natural gas supply to the combustion turbines.

B.2. Authorized Fuel: The natural gas heater shall fire only pipeline natural gas. [Rules 62-210.200(PTE), F.A.C.]

B.3. Hours of Operation: Operation of the natural gas heater is not restricted. [Rule 62-210.200(PTE), F.A.C.]

REGULATORY APPLICABILITY

B.4. NSPS Subpart Dc and Subpart A Applicability: The natural gas heater is subject to all applicable requirements of 40 CFR 60, Subpart Dc which applies to Small Industrial, Commercial or Institutional Boilers and Subpart A, General Provisions. Specifically, this emission unit shall comply with 40 CFR 60.48c Reporting and Recordkeeping Requirements as specified below and the applicable provisions NSPS Subpart A, General Provisions, identified in Appendix 60-A. Appendices A and Dc of this permit. [Rule 62-204.800(7)(b) and 40 CFR 60, NSPS-Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units].

NOTIFICATIONS, RECORDS AND REPORTS

B.5. Notification: Initial notification is required for the natural gas heater. [40 CFR 60.7]

B.6. Reporting: The permittee shall maintain records of the amount of natural gas used in the heater. These records shall be submitted to the Compliance Authority on an annual basis or upon request. [Rule 62-4.070(3), F.A.C.]

B.7. Reporting and Recordkeeping Requirements of §60.48c.

a. The owner or operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by § 60.7 of this part. This notification shall includes the following. [§60.48c (a)]

   (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.

   (2) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

b. The owner or operator of each affected facility shall record and maintain records of the amounts of each fuel combusted during each day. §60.48c (g)

c. (i) All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record. §60.48c (i)

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d. The reporting period for the reports required under this subpart is each six-month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period. §60.48c (j)

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Plant: Shady Hills Generating Station
Operated by: Shady Hills Power Company, LLC
ORIS Code: 55414

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

EU No.	Emission Unit Description
001	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
002	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
003	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241

1. Acid Rain Application. 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 DEP Form No. 62-210.900(1)(a), dated 05/10/2012 and received 05/18/2012. [Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

2. SO_2 Emission Allowances. SO_2 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. Allowances shall be accounted for under the Federal Acid Rain Program.

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

3. Comments, Notes, and Justifications. None.

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Acid Rain Part Application

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

This submission is: ☐ New ☐ Revised X Renewal

STEP 1

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

Plant name	State	ORIS/Plant Code
Shady Hills Generating Station	**FL**	**55414**

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

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

For new units or SO_2 Opt-in units, enter the requested information in columns "d" and "e."

a	b	c	d	e
Unit ID#	SO_2 Opt-in Unit? (Yes or No)	Unit will hold allowances in accordance with 40 CFR 72.9(c)(1)	New or SO_2 Opt-in Units Commence Operation Date	New or SO_2 Opt-in Units Monitor Certification Deadline
001		Yes		
002		Yes		
003		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		
		Yes		

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Plant Name (from STEP 1) **Shady Hills Generating Station**

STEP 3

Read the standard requirements.

Acid Rain Part Requirements.

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

Monitoring Requirements.

(1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR Part 75, and Rule 62-214.420, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 75 shall be used to determine compliance by the unit with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain Program.
(3) The requirements of 40 CFR Part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the source.
(4) For applications including a SO_2 Opt-in unit, a monitoring plan for each SO_2 Opt-in unit must be submitted with this application pursuant to 40 CFR 74.14(a). For renewal applications for SO_2 Opt-in units include an updated monitoring plan if applicable under 40 CFR 75.53(b).

Sulfur Dioxide Requirements.

(1) The owners and operators of each source and each Acid Rain unit at the source shall:
(i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and
(ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide.
(2) Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the Act.
(3) An Acid Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
(i) Starting January 1, 2000, an Acid Rain unit under 40 CFR 72.6(a)(2); or
(ii) Starting on the later of January 1, 2000, or the deadline for monitor certification under 40 CFR Part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
(4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain Program.
(5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
(6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain Part application, the Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.
(7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years, in writing by the EPA or the DEP:
(i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214.350, F.A.C.; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
(ii) All emissions monitoring information, in accordance with 40 CFR Part 75, provided that to the extent that 40 CFR Part 75 provides for a 3-year period for recordkeeping, the 3-year period shall apply;
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program; and,

Plant Name (from STEP 1) **Shady Hills Generating Station**

STEP 3, Continued.

Recordkeeping and Reporting Requirements (cont)

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

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

Liability.

(1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program, a complete Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States, shall be subject to enforcement pursuant to section 113(c) of the Act.
(2) Any person who knowingly makes a false, material statement in any record, submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Act and 18 U.S.C. 1001.
(3) No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect.
(4) Each Acid Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
(5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
(6) Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 76.11 (NO_x averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR Part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit shall not be liable for any violation by any other Acid Rain unit of which they are not owners or operators or the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
(7) Each violation of a provision of 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit, or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities.

No provision of the Acid Rain Program, an Acid Rain Part application, an Acid Rain Part, or an exemption under 40 CFR 72.7or 72.8 shall be construed as:
(1) Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and, to the extent applicable, the designated representative of an Acid Rain source or Acid Rain unit from compliance with any other provision of the Act, including the provisions of title I of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans;
(2) Limiting the number of allowances a unit can hold; *provided,* that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
(3) Requiring a change of any kind in any state law regulating electric utility rates and charges, affecting any state law regarding such state regulation, or limiting such state regulation, including any prudence review requirements under such state law;
(4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act; or,
(5) Interfering with or impairing any program for competitive bidding for power supply in a state in which such program is established.

STEP 4
For SO_2 Opt-in units only.

In column "f" enter the unit ID# for every SO_2 Opt-in unit identified in column "a" of STEP 2.

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

In column "h" enter the hours.

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

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Plant Name (from STEP 1) **Shady Hills Generating**

STEP 5

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

In column "i" enter the unit ID# for every SO_2 Opt-in unit identified in column "a" (and in column "f").

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

i	j	k	l	m	n
Unit ID#	Baseline or Alternative Baseline under 40 CFR 74.20 (mmBtu)	Actual SO_2 Emissions Rate under 40 CFR 74.22 (lbs/mmBtu)	Allowable 1985 SO_2 Emissions Rate under 40 CFR 74.23 (lbs/mmBtu)	Current Allowable SO_2 Emissions Rate under 40 CFR 74.24 (lbs/mmBtu)	Current Promulgated SO_2 Emissions Rate under 40 CFR 74.25 (lbs/mmBtu)

STEP 6

For SO_2 Opt-in units only.

Attach additional requirements, certify and sign.

A. If the combustion source seeks to qualify for a transfer of allowances from the replacement of thermal energy, a thermal energy plan as provided in 40 CFR 74.47 for combustion sources must be attached.
B. A statement whether the combustion unit was previously an affected unit under 40 CFR 74.
C. A statement that the combustion unit is not an affected unit under 40 CFR 72.6 and does not have an exemption under 40 CFR 72.7, 72.8, or 72.14.
D. Attach a complete compliance plan for SO_2 under 40 CFR 72.40.
E. The designated representative of the combustion unit shall submit a monitoring plan in accordance with 40 CFR 74.61. For renewal application, submit an updated monitoring plan if applicable under 40 CFR 75.53(b).
F. The following statement must be signed by the designated representative or alternate designated representative of the combustion source: "I certify that the data submitted under 40 CFR Part 74, Subpart C, reflects actual operations of the combustion source and has not been adjusted in any way."

Signature	Date

STEP 7

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

Certification (for designated representative or alternate designated representative only)

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

Name **Roy S. Belden**	Title **Vice President**
Owner Company Name **Shady Hills Power Company, LLC**	
Phone **(203) 357-6820**	E-mail address **roy.belden@ge.com**
Signature Roy S. Belden	Date 5/10/12

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Plant: Shady Hills Generating Station
Operated by: Shady Hills Power Company, LLC
ORIS Code: 55414

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

EU No.	Emission Unit Description
001	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
002	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241
003	170 MW simple cycle combustion turbine-electrical generator General Electric Model PG 7241

1. Clean Air Interstate Rule Application. The Clean Air Interstate Rule Part Form submitted for this facility is a part of this permit. The owners and operators of these CAIR units as identified in this form must comply with the standard requirements and special provisions set forth in the CAIR Part Form (DEP Form No. 62-210.900(1)(b)) 05/10/2012 and received 05/18/2012, which is attached at the end of this section. [Chapter 62-213, F.A.C. and Rule 62-210.200, F.A.C.]

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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 **X** Renewal

STEP 1

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

Plant Name: **Shady Hills Generating Station**	State: **Florida**	ORIS or EIA Plant Code: **55414**

STEP 2

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

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

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

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

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Plant Name (from STEP 1) **Shady Hills Generating Station**

STEP 3

Read the standard requirements.

CAIR NO_X ANNUAL TRADING PROGRAM

CAIR Part Requirements.

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

NO_X Emission Requirements.

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

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_X source and each CAIR NO_X unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
(i) The certificate of representation under 40 CFR 96.113 for the CAIR designated representative for the source and each CAIR NO_X unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Annual Trading Program.
(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_X Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO_X Annual Trading Program.
(2) The CAIR designated representative of a CAIR NO_X source and each CAIR NO_X unit at the source shall submit the reports required under the CAIR NO_X Annual Trading Program, including those under 40 CFR Part 96, Subpart HH.

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STEP 3, Continued

Liability.

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

Effect on Other Authorities.

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

CAIR SO_2 TRADING PROGRAM

CAIR Part Requirements.

(1) The CAIR designated representative of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall:
(i) Submit to the DEP a complete and certified CAIR Part form under 40 CFR 96.222 and Rule 62-296.470, F.A.C., in accordance with the deadlines specified in Rule 62-213.420, F.A.C.; and
(ii) [Reserved];
(2) The owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall have a CAIR Part included in the Title V operating permit issued by the DEP under 40 CFR Part 96, Subpart CCC, for the source and operate the source and each CAIR unit in compliance with such CAIR Part.

Monitoring, Reporting, and Recordkeeping Requirements.

(1) The owners and operators, and the CAIR designated representative, of each CAIR SO_2 source and each SO_2 CAIR unit at the source shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR Part 96 ,Subpart HHH, and Rule 62-296.470, F.A.C.
(2) The emissions measurements recorded and reported in accordance with 40 CFR Part 96, Subpart HHH, shall be used to determine compliance by each CAIR SO_2 source with the following CAIR SO_2 Emission Requirements.

SO_2 Emission Requirements.

(1) As of the allowance transfer deadline for a control period, the owners and operators of each CAIR SO_2 source and each CAIR SO_2 unit at the source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO_2 allowances available for compliance deductions for the control period, as determined in accordance with 40 CFR 96.254(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO_2 units at the source, as determined in accordance with 40 CFR Part 96, Subpart HHH.
(2) A CAIR SO_2 unit shall be subject to the requirements under paragraph (1) of the Sulfur Dioxide Emission Requirements starting on the later of January 1, 2010 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.270(b)(1) or (2) and for each control period thereafter.
(3) A CAIR SO_2 allowance shall not be deducted, for compliance with the requirements under paragraph (1) of the SO_2 Emission Requirements, for a control period in a calendar year before the year for which the CAIR SO_2 allowance was allocated.
(4) CAIR SO_2 allowances shall be held in, deducted from, or transferred into or among CAIR SO_2 Allowance Tracking System accounts in accordance with 40 CFR Part 96, Subparts FFF and GGG.
(5) A CAIR SO_2 allowance is a limited authorization to emit sulfur dioxide in accordance with the CAIR SO_2 Trading Program. No provision of the CAIR SO_2 Trading Program, the CAIR Part, or an exemption under 40 CFR 96.205 and no provision of law shall be construed to limit the authority of the state or the United States to terminate or limit such authorization.
(6) A CAIR SO_2 allowance does not constitute a property right.
(7) Upon recordation by the Administrator under 40 CFR Part 96, Subpart FFF or GGG, every allocation, transfer, or deduction of a CAIR SO_2 allowance to or from a CAIR SO_2 unit's compliance account is incorporated automatically in any CAIR Part of the source that includes the CAIR SO_2 unit.

Excess Emissions Requirements.

If a CAIR SO_2 source emits SO_2 during any control period in excess of the CAIR SO_2 emissions limitation, then:
(1) The owners and operators of the source and each CAIR SO_2 unit at the source shall surrender the CAIR SO_2 allowances required for deduction under 40 CFR 96.254(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Clean Air Act or applicable state law; and
(2) Each ton of such excess emissions and each day of such control period shall constitute a separate violation of 40 CFR Part 96, Subpart AAA, the Clean Air Act, and applicable state law.

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Station

STEP 3, Continued

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR SO_2 source and each CAIR SO_2 unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the Department or the Administrator.

(i) The certificate of representation under 40 CFR 96.213 for the CAIR designated representative for the source and each CAIR SO_2 unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.213 changing the CAIR designated representative.

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

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO_2 Trading Program.

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

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

Liability.

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

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

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

Effect on Other Authorities.

No provision of the CAIR SO_2 Trading Program, a CAIR Part, or an exemption under 40 CFR 96.205 shall be construed as exempting or excluding the owners and operators, and the CAIR designated representative, of a CAIR SO_2 source or CAIR SO_2 unit from compliance with any other provision of the applicable, approved State Implementation Plan, a federally enforceable permit, or the Clean Air Act.

CAIR NO_x OZONE SEASON TRADING PROGRAM

CAIR Part Requirements.

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

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

(ii) [Reserved];

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

Monitoring, Reporting, and Recordkeeping Requirements.

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

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

NO_x Ozone Season Emission Requirements.

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

(2) A CAIR NO_X Ozone Season unit shall be subject to the requirements under paragraph (1) of the NO, Ozone Season Emission Requirements starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under 40 CFR 96.370(b)(1),(2), or (3) and for each control period thereafter.

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

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

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

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

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

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STEP 3, Continued

Excess Emissions Requirements.

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

Recordkeeping and Reporting Requirements.

(1) Unless otherwise provided, the owners and operators of the CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time before the end of 5 years, in writing by the DEP or the Administrator.
(i) The certificate of representation under 40 CFR 96.313 for the CAIR designated representative for the source and each CAIR NO_X Ozone Season unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation under 40 CFR 96.113 changing the CAIR designated representative.
(ii) All emissions monitoring information, in accordance with 40 CFR Part 96, Subpart HHHH, of this part, provided that to the extent that 40 CFR Part 96, Subpart HHHH, provides for a 3-year period for recordkeeping, the 3-year period shall apply.
(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO_X Ozone Season Trading Program.
(iv) Copies of all documents used to complete a CAIR Part form and any other submission under the CAIR NO_X Ozone Season Trading Program or to demonstrate compliance with the requirements of the CAIR NO_X Ozone Season Trading Program.
(2) The CAIR designated representative of a CAIR NO_X Ozone Season source and each CAIR NO_X Ozone Season unit at the source shall submit the reports required under the CAIR NO_X Ozone Season Trading Program, including those under 40 CFR Part 96, Subpart HHHH.

Liability.

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

Effect on Other Authorities.

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

STEP 4

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

Certification (for designated representative or alternate designated representative only)

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

Name **Roy S. Belden**	Title **Vice President**
Owner Name **Shady Hills Power Company, LLC**	Company
Phone **(203) 357-6820**	E-mail Address **roy.belden@ge.com**
Signature Roy S. Belden	Date 5/10/12

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Unless otherwise specified, the following appendices are enforceable parts of this permit:

Appendix A. Citation Formats
Appendix CC. Common Conditions
Appendix GC. General Conditions
Appendix H. Permitting History
Appendix I. List of Insignificant Emissions Units and Activities
Appendix RR, Facility-wide Reporting Requirements.
Appendix STR. Stack Testing Requirements
Appendix TV. Title V Conditions
Appendix U. List of Unregulated Emissions Units and Activities
Appendix 60-A. NSPS Subpart A - General Provisions
Appendix 60-KKKK. NSPS Subpart KKKK - Stationary Combustion Turbines

Revised Draft/Proposed Permit