Florida Department of Environmental Protection

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PERMITTEE

Orlando Utilities Commission
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Authorized Representative:
Chip Merriam, V. P.
Legislative and Regulatory Affairs

Air Permit No. 0090008-011-AC (PSD-FL-130C & PSD-FL-173C)
Permit Expires: July 31, 2016
Minor Air Construction Permit

Indian River Plant
Modification of Annual Compliance Test Requirements

PROJECT

This is the final air construction permit that revises Permit No. PSD-FL-130A (AC 05-144482 & AC 05-146749) by raising the number of hours (170 hours to 400 hours) that Emissions Units (EU) 004 and 007 must burn a fuel in a year to be required to do annual compliance tests while changing the year timeframe to a calendar year basis. This permit also revises Permit No. PSD-FL-173A (AC 05-193720) for EUs 005 and 006 to also required annual compliance testing on a calendar year basis. The Indian River Plant is an Electric Services Source (power plant) categorized under Standard Industrial Classification No. 4911. The existing facility is located in Brevard County at US 1 & Kings Hwy in Titusville, Florida. The UTM coordinates are Zone 17, 521.3 kilometers (km) East and 3151.7 km North.

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 draft 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 is not subject to 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 because there are no changes in emissions from the facility. 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.

David Lyle Read, P.E.
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For:

Jeffery F. Koerner, Deputy Director
Division of Air Resource Management

JFK/dlr/cs

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit Revision) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Mr. Chip Merriam, OUC: cmerriam@ouc.com
Mr. Michael Kyhos, OUC: mkyhos@ouc.com
Mr. Michael Ballenger, Trinity Consultants: mballenger@trinityconsultants.com
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Ms. Lorinda Shepherd, EPA Region 4: shepherd.lorinda@epa.gov
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Ms. Lynn Scearce, DEP OPC: lynn.scearce@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.

Lynn Scearce

2015.08.18
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FACILITY DESCRIPTION

The existing facility is an Electric Services Source (power plant), which consists of the following emissions units and activities:

EUs 001, 002, and 003 are three Combustion Engineering Steam Generators (boilers), with a combined electrical generation rating of 603 megawatt (MW) while firing natural gas or propane gas. These emissions units are not equipped with add-on pollution control devices. Unit 001 began operation on February 1, 1960; Unit 002 on September 1, 1964; and Unit 003 on February 1, 1974.

EUs 004 and 007 (combustion turbines (CT) A and B) consist of simple cycle General Electric Frame 6 combustion turbines, each with a 35 MW rating. Although the turbines primarily fire natural gas, distillate oil may be fired during periods of curtailed or uneconomical natural gas supply. Nitrogen oxides (NO_X) emissions are reduced by using water injection. Both CT began commercial operation on August 1, 1990.

EUs 005 and 006 (CT C and D) consist of simple cycle Westinghouse Model Number 501-D5 combustion turbines, each with a 129 MW rating. The CT primarily fire natural gas. Distillate oil may be fired during periods of curtailed or uneconomical natural gas supply. NO_X emissions are controlled by water injection. Both CT began commercial operation on November 1, 1991.

EU 008 is a lime storage silo filling system. The silo is equipped with a fabric filter baghouse made by General Resource Corporation, Model 13204.8. The baghouse is approximately 99 percent efficient in controlling particulate matter (PM) emissions. This source began operation on February 25, 1993 and is considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

EU 010 is a 235 horsepower (Hp) Stationary Reciprocating Internal Combustion Engine (RICE). This emissions unit consists of a Caterpillar model D343A, diesel fuel-fired emergency generator which commenced operation in 1964.

EU No.	Description
001	87 MW Unit No. 1 Boiler
002	188 MW Unit No. 2 Boiler
003	328 MW Unit No. 3 Boiler
004	35 MW Simple CT A
005	129 MW Simple CT C
006	129 MW Simple CT D
007	35 MW Simple CT B
008	Lime Storage Silo Filling System (considered insignificant pursuant to Rule 62-213.430(6), F.A.C.)
010	235 HP RICE-Driven Emergency Generator

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units 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 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.
- The facility operates units that are subject to the NSPS at 40 Code of Federal Regulations, Part 60 (40 CFR 60), and the National Emissions Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR 63.

PROPOSED PROJECT

The proposed project will revise Permit No. PSD-FL-130A (AC 05-144482 & AC 05-146749) affecting EUs 004 and 007 (CTs A and B) and Permit No. PSD-FL-173A (AC 05-193720) affecting EUs 005 and 006 (CTs C and D). The revisions will change the number of hours per year EUs 004 and 007 must run on a fuel from 170 to 400 before an annual compliance test on that fuel is required. The revisions will also change the timeframe during which required annual tests must be done for EUs 004, 005, 006 and 007 from 'proceeding 12 month period' to the 'calendar year.' This permit does not authorize any new construction, nor any increases in capacity or actual pollutant emissions to the atmosphere. Except as specified below, the facility remains subject to all of the rules and requirements contained in all previously issued air construction permits for these EUs. [Rule 62-4.070, F.A.C.]

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department's central District at: 3319 Maguire Boulevard, Suite 232 Orlando, FL 32803-3767.

3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); Appendix C (Common Conditions); and Appendix D (Common Testing Requirements).

4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.

5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

6. Modifications: The permittee shall notify the Compliance Authority upon commencement of construction. No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) and 62-212.300(1)(a), F.A.C.]

7. Construction and Expiration. The expiration date shown on the first page of this permit provides time to complete the physical construction activities authorized by this permit, complete any necessary compliance testing, and obtain an operation permit. Notwithstanding this expiration date, all specific emissions limitations and operating requirements established by this permit shall remain in effect until the facility or emissions unit is permanently shut down. For good cause, the permittee may request that that a permit be extended. Pursuant to Rule 62-4.080(3), F.A.C., such a request shall be submitted to the Permitting Authority in writing before the permit expires. [Rules 62-4.070(4), 62-4.080 & 62-210.300(1), F.A.C.]

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.

Permit Being Modified: Permit No. PSD-FL-130A (AC 05-144482 & AC 05-146749)

Affected Emissions Units: EU 004 and EU 007 (CT A and B)

Specific Condition 11 of the referenced permit: This condition is revised as follows.

1. "Initial (I) compliance tests shall be performed using both fuels. Annual (A) compliance tests shall be performed with the fuel(s) used for more than ~~170~~ 400 hours, other than during startup, during the calendar year ~~in the preceding 12 month period~~. Tests shall be conducted using EPA methods in accordance with the July 1, 1987 version of 40 CFR 60 Appendix A:

   a. 20 for NO_x (I,A)

   b. ASTM D 2880-71 for sulfur content of distillate oil, and ASTM 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 DER)

   c. 10 for CO (I)

   d. 9 for VE (I,A)

   e. 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.

   Any unit which has accumulated ~~170~~ 400 hours burning fuel oil, other than during startup, during the ~~preceding 12 month period~~ calendar year shall conduct an annual test using fuel oil.

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

   [Permit No. PSD-FL-130A (AC 05-144482 & AC 05-146749) and Rule 62-297.310(8)(a)5.f., F.A.C.]

Permit Being Modified: Permit No. PSD-FL-173A (AC 05-193720)

Affected Emissions Units: EU 005 and EU 006 (CTs C and D)

Specific Condition 10 of the referenced permit: This condition is revised as follows.

2. "An initial compliance test shall be performed using both fuels. Annual NO_x compliance tests shall be performed with each fuel used for more than 400 hours per unit, other than during startup, in the ~~proceeding 12 month period~~ calendar year."

   [Permit No. PSD-FL-173A (AC 05-193720) and Rule 62-297.310(8)(a)5.f., F.A.C.]