FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
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SECRETARY

PERMITTEE

Duke Energy Florida, Inc. (DEF)

Authorized Representative:
Mr. William Luke, Plant Manager

Permit No. 1010017-014-AC/PSD-FL-419A
Project: Revisions to Previously Issued AC/PSD Permits
Anclote Power Plant
Pasco County, Florida

PROJECT

This is the final air construction permit, which authorizes revisions to the previously issued air construction (AC)/Prevention of Significant Deterioration (PSD) permits, Permit Nos. 1010017-013-AC/PSD-FL-419 (Project). This facility is an existing electrical generation plant categorized under Standard Industrial Classification No. 4911. This existing plant is located in Pasco County at 1729 Baillies Bluff Road, Holiday, Florida; UTM Coordinates are: Zone 17, 324.4 km East and 3118.7 km North; and, Latitude: 28° 11' 04" North and Longitude: 82° 47' 19" West.

This final permit is organized into the following sections: Section I (General Information), Section II (Administrative Requirements) and Section III (Emission(s) Unit(s) Specific Conditions); and, Section IV (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section IV of this permit. 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. 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 L. Read, P.E.
2014.09.05
12:23:03 -04'00'

for: Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

JFK/dlr/sms

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Air Permit package 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. William Luke, DEF: william.luke@duke-energy.com
Mr. Jeffrey R. Swartz, DEF: jeffrey.swartz@duke-energy.com
Mr. Chris Bradley, DEF: chris.bradley@duke-energy.com
Ms. Suzanne Hamilton, DEF: suzanne.hamilton@duke-energy.com
Mr. Scott Osbourn, P.E., Golder Associates Inc.: sosbourn@golder.com
Ms. Kelley Boatwright, DEP SWD: kelley.boatwright@dep.state.fl.us
Ms. Ana Oquendo-Vazquez, U.S. EPA Region 4: oquendo.ana@epa.gov
Ms. Natasha Hazziez, U.S. EPA Region 4: hazziez.natasha@epa.gov
Mr. Louis Nichols, U.S. EPA CAMD: nichols.louis@epa.gov
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

Lynn Scearce
2014.09.05
14:26:05 -04'00'

FACILITY DESCRIPTION

This existing facility consists of two fossil fuel fired steam generators, designated as Unit Nos. 1 and 2. These two units share a common stack. The facility also includes two 12-cell mechanical draft helper cooling towers, two natural gas-fired process heaters, an emergency diesel fire pump and an emergency diesel generator. Also located at the facility are miscellaneous unregulated/insignificant emissions units and/or activities.

FACILITY REGULATORY CLASSIFICATION

- Based on the Title V air operation permit renewal application received on May 12, 2014, this facility will no longer be a major source of hazardous air pollutants (HAP).
- This facility does operate 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 213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400 (PSD), F.A.C.

PREVIOUSLY PERMITTED PROJECT - 1010017-013-AC/PSD-FL-419

Air construction Permit Nos. 1010017-013-AC/PSD-FL-419 authorized the Natural Gas Conversion Project.

PROPOSED PROJECT

The applicant applied on May 12, 2014, to the Department for a minor source air construction (AC) permit. The minor source AC permit is for revisions to the previously issued AC/Prevention of Significant Deterioration (PSD) permits, Permit Nos. 1010017-013-AC/PSD-FL-419 (Project).

The approved requested revisions are included in this permit.

This project will consist of the following emissions units (E.U.):

Facility ID No. 1010017

E.U. ID No.	E.U. Brief Description
001	Fossil Fuel Fired Steam Generator Unit No. 1
002	Fossil Fuel Fired Steam Generator Unit No. 2
009	Two nominal 9.8 MMBtu/hour (HHV) natural gas-fired process heaters

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Minor Source Air Construction Permit Application received on May 12, 2014 (complete).

SECTION II. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance, Division of Air Resource Management, Florida Department of Environmental Protection (Department). The mailing address for the Office of Permitting and Compliance 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 Southwest District Office at: 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926, Telephone: (813) 470-5700, Fax: (813) 470-5995 or electronically at SWD_AIR@dep.state.fl.us.

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); and, Appendix C (Common Conditions).

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 & 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) & 62-212.300(1)(a), F.A.C.]

7. Source Obligation: At such time that a particular source or modification becomes a major stationary source or major modification (as these terms were defined at the time the source obtained the enforceable limitation) solely by exceeding its projected actual emissions, then the requirements of subsections 62-212.400(4) through (12), F.A.C., shall apply to the source or modification as though construction had not yet commenced on the source or modification. [Rule 62-212.400(12), F.A.C.]

For simplified reading, the important revisions are emphasized with yellow highlight in this electronic document. ~~Strikethrough~~ is used to denote the deletion of text and double-underlines are used to denote the addition of text.

Permit Being Modified: 1010017-013-AC/PSD-FL-419
Affected Emissions Units: Fossil Fuel Fired Steam Generator Unit Nos. 1 & 2 (E.U. ID Nos. 001 & 002)

The COMS are no longer required to be installed and operated on Fossil Fuel Fired Steam Generator Unit Nos. 1 & 2. Therefore, the references to the COMS in the permit being modified are removed as follows:

Subsection 3.A. Fossil Fuel-Fired Steam Generators, Units 1 and 2

…

EMISSION LIMITATIONS AND PERFORMANCE STANDARDS

7. Emission Standards: Emissions from Units 1 and emissions from Unit 2 shall not exceed the following standards based on the data collected by the continuous emission monitoring systems (CEMS) ~~and the continuous opacity monitoring systems (COMS)~~.

a. …

b. …

c. *Visible Emissions:* As determined by ~~COMS data or~~ EPA Method 9, after December 31, 2013 and after June 30, 2014 visible emissions from Unit 1 and Unit 2, respectively, shall not exceed 15 percent (%) opacity based on a 6-minute block average, except for one 6-minute period per hour of not more than 20%. For periods of startup, shutdown and malfunction, visible emissions shall not exceed 20% opacity except for one 6-minute period per hour of not more than 27% as determined by ~~COMS data or~~ EPA Method 9.
[Rules 62-4.070, 62-210.200 (Definition-BACT and 62-212.400(PSD/BACT), F.A.C.]

CONTINUOUS EMISSIONS MONITORING REQUIREMENTS

11. Existing CEMS~~/COMS~~: For Units 1 and 2, the permittee shall continue to calibrate, operate, and maintain continuous monitoring equipment to measure and record ~~opacity and~~ NO_X. The monitors shall be installed, operated and maintained in accordance with the existing requirements of 40 CFR 60.45, as well as the provisions of the federal acid rain program. [Rule 62-4.070(3), F.A.C.]

13. Compliance by ~~COMS and~~ CEMS: Compliance with the standards for ~~opacity and~~ emissions of CO and NO_X shall be demonstrated with data collected from the required continuous monitoring systems. Within 90 days of achieving 4,950 MMBtu/hour/unit while firing the new gas burners in each unit, but not later than 180 days after firing the new gas burners, the permittee shall certify proper operation of each required monitor. [Rules 62-4.070(3) and 62-212.400(Definitions-BACT), F.A.C.]

The heat input ratings of the two gas-fired process heaters are revised as follows:

Subsection 3.C. Natural Gas Fuel Heaters

This section of the permit addresses the following emissions unit.

EU No.	Emissions Unit Description
009	Two nominal ~~16.5~~9.8 MMBtu/hour (HHV) natural gas-fired process heaters

NSPS APPLICABILITY

~~1. NSPS Subpart Dc Applicability: Each 16.5 MMBtu/hr process heater is subject to all applicable requirements of 40 CFR 60, Subpart Dc which applies to Small Industrial, Commercial, or Institutional Boiler. Specifically, each emission unit shall comply with 40 CFR60.48c Reporting and Recordkeeping Requirements.~~
~~[Rule 62-204.800(7)(b) and 40 CFR 60, NSPS Subpart Dc - Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units, attached as Appendix Dc].~~

EQUIPMENT SPECIFICATIONS

4. Equipment: The permittee is authorized to install, operate, and maintain two ~~16.5~~9.8 MMBtu/hour (HHV) process heaters for the purpose of heating the natural gas supply to the boilers. [Application No. 1010017-013-AC; Rule 62-210.200(PTE), F.A.C.]

NOTIFICATION, REPORTING AND RECORDS

6. Notification: Initial notification is not required for the two small gas-fueled ~~16.5~~9.8 MMBtu/hr process heaters. [40 CFR 63.9, 40 CFR 63.7506(c) and Rule 62-204.800(11)(b) F.A.C.]