FLORIDA DEPARTMENT OF Environmental Protection

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PERMITTEE

Seminole Electric Cooperative, Inc. (SECI)
16313 North Dale Mabry Highway
Tampa, Florida 33618

Authorized Representative:
David Ferrentino, Vice President and General Counsel

Air Permit No. 1070025-037-AC
PSD-FL-018C & 372C
Permit Expires: December 31, 2021
Air Construction Permit Revision
Seminole Generating Station
MW Rating & SO_2 MATS Limit

PROJECT

This is the final air construction permit, which authorizes a revision to update the nominal gross generator ratings for steam electric generator Nos. 1 and 2 (Units 1 and 2). This permit also authorizes a modification to the sulfur dioxide (SO_2) emissions limit for Units 1 and 2 from 0.25 pounds per million British thermal units (lb/MMBtu) to 0.20 lb/MMBtu to comply with the Regional Haze Requirements. The proposed work will be conducted at the existing Seminole Generating Station, which is a fossil-fueled electric power plant categorized under Standard Industrial Classification No. 4911. The existing facility is in Putnam County at 890 North U.S. Highway 17, Palatka, Florida. The UTM coordinates are Zone 17, 438.8 kilometers (km) East and 3289.2 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); and Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this 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.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. 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.

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.

Digitally signed by David Read
Date: 2021.04.14 13:19:42 -04'00'

David Lyle Read, P.E., Environmental Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Construction 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. David Ferrentino, SECI: DFerrentino@seminole-electric.com
Mr. Chris Weber, SECI: CWeber@seminole-electric.com
Mr. Michael Ballenger, P.E., Trinity Consultants, Inc.: MBallenger@trinityconsultants.com
Mr. Tom Kallemeyn, Northeast District Office: Tom.Kallemeyn@floridadep.gov
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EPA Region 4 NSR/PSD: NSRsubmittals@epa.gov
Ms. Lynn Scearce, DEP OPC: Lynn.Scearce@FloridaDEP.gov

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 Digitally signed by Lynn Scearce
Date: 2021.04.14 13:48:09 -04'00'

FACILITY DESCRIPTION

The existing facility consists of the following emissions units (EU).

EU No.	Brief Description
Regulated Emissions Units	
001	Steam Electric Generator No. 1
002	Steam Electric Generator No. 2
004	Coal Handling and Storage Activities
005	Limestone, Wet Scrubber Sludge and Ash Handling and Storage Activities
Unregulated Emissions Units and/or Activities	
006	Emergency Generator Diesel Engine
007	Emergency Fire Pump Diesel Engine
008	General Plant Fugitive Emissions

Also included in this facility are miscellaneous insignificant emissions units and/or activities.

PROPOSED PROJECT

The SECI is requesting a concurrent air construction permit and Title V air operation permit revision to include the following:

- Incorporate the revision of the SO_2 emission limit complying with the regional haze requirements for the two-existing coal-fired steam electric generators; and,
- Revise the nominal gross generating capacity of the two coal-fired steam electric generators to 714.6 megawatts (MW) to reflect the correct capacity.

This project will affect the following emissions units.

EU No.	Emission Unit Description
001	Steam Electric Generator No. 1
002	Steam Electric Generator No. 2

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 subject to the New Source Performance Standards (NSPS) of Title 40 Part 60 of the Code of Federal Regulations (40 CFR 60).
- The facility operates units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63, including the Mercury and Air Toxics Standards (MATS).

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. All documents related to applications for permits to operate an emissions unit shall be submitted to the Permitting Authority.

2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the Department's Northeast District Office at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256. The Northeast District Office telephone number is 904-256-1700.

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 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(3) & (4), 62-4.080 & 62-210.300(1), F.A.C.]

SECTION 3. PERMIT REVISIONS

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. Except for the modified conditions noted below, all other previously established permits and conditions remain in effect.

Permits Being Modified: Permit Nos. 1070025-004-AC (PSD-FL-372) & 1070025-019-AC (PSD-FL-018B)

Affected Emissions Units: Steam Electric Generators, Units 1 & 2 (EU 001 & 002)

1. PSD-FL-372, Page 5 of 10, Section 3, Subsection A, Specific Condition 6 (Turbine Upgrade):

6. ~~Turbine Upgrade: Each existing steam turbine for Units 1 and 2 shall be upgraded for increased unit efficiency, and in order to recover portions of the lost electrical output from powering the above additions. Such efficiency improvements may include blade and/or rotor redesigns and replacements. The nominal gross MW rating per unit will increase from 714.6 to 735.9 MW although each boiler maximum heat input will remain at 7,172 MMBtu/hr. [Design]~~ Permitted Capacity: The permitted capacity per unit shall not exceed 714.6 nominal gross MW. By design, each boiler's maximum heat input is 7,172 million British thermal units per hour (MMBtu/hour). [Application No. 1070025-037-AC (PSD-FL-018C & 372C); and, Rule 62-210.200(PTE), F.A.C.]

2. PSD-FL-018B, Page 5 of 5, Section 3, Specific Condition 3 (Sulfur Dioxide (SO_2) Emission Standard):

3. Sulfur Dioxide (SO_2) Emission Standard: When combusting coal in Units 1 and 2, the owner or operator shall not cause to be discharged into the atmosphere from either unit any gases which contain SO_2 in excess of ~~0.25 lb/MMBtu or 5% of the potential combustion concentration (95% reduction), whichever is less stringent. Compliance with the emission standard shall be determined on a 30-day rolling average basis in accordance with the procedures contained in 40 Code of Federal Regulation Part 60, Subpart Da. This condition shall become effective upon the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan, and the compliance date for the emission standard shall be as soon as practicable after its effectiveness, but no later than March 1, 2016. [Application No. 1070025-019-AC]~~ 0.20 lb/MMBtu based on a heat input-weighted 30-boiler operating day rolling average. Compliance shall be demonstrated in accordance with 40 CFR 63.10021(a) and (b) of the MATS rule. [Rules 62-210.300(1) & 62-204.800, F.A.C. (Compliance with the Regional Haze Rule); and, 40 CFR 63.10021(a) & (b)]

   ~~*{Note: This condition will apply in addition to other SO2 limitations listed in Permit FL-018 or Title V Air Operation Permit 1070025-013-AV, its renewals and its revisions.}*~~*{Permitting Note: The more stringent SO_2 emission limit of 0.20 lb/MMBtu ensures compliance with the less stringent yet applicable SO_2 emission standards from NSPS 40 CFR 60, Subpart Da and PSD and this federally enforceable condition satisfies the "effectively controlled emission unit" criteria for the Regional Haze Rule.}*

4. SO_2 Emissions. – Coal: No owner or operator subject to the provisions of 40 CFR 60 Subpart Da shall cause to be discharged into the atmosphere from any affected facility which combusts coal any gases which contain sulfur dioxide in excess of:
   a. 520 ng/J (1.20 lb/MMBtu) heat input and 10% of the potential combustion concentration (90% reduction), or
   b. 30% of the potential combustion concentration (70% reduction) when emissions are less than 260 ng/J (0.60 lb/MMBtu) heat input.

   Compliance with the emission limitation and percent reduction requirements are both determined on a 30-day rolling average basis in accordance with NSPS Subpart Da provisions. [Application No. 1070025-037AC (PSD-FL-018C& 372C); and, 40 CFR 60.43Da(a)&(g)]