Florida Department of Environmental Protection

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Tallahassee, Florida 32399-2400

Rick Scott
Governor

Herschel T. Vinyard Jr.
Secretary

PERMITTEE

City of Gainesville
Gainesville Regional Utilities (GRU)

Authorized Representative:
Mr. John W. Stanton, Assistant General Manager - Energy Supply

Permit Nos. 0010005-010-AC/PSD-FL-276B

Project: Revisions to Previously Issued AC/PSD Permits

J.R. Kelly Generating Station
Alachua 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. 0010005-002-AC/PSD-FL-276 (Project). This facility is an existing electrical generation plant categorized under Standard Industrial Classification No. 4911. This existing plant is located in Alachua County at 605 SE 3rd Street, Gainesville. UTM Coordinates are: Zone 17, 372.00 km East and 3280.20 km North; Latitude: 29° 38' 48" North and Longitude: 82° 19' 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. [(If applicable) 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
For the Division of Air Resource Management

JFK/sa/sms

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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) 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 persons listed below.

Mr. John W. Stanton, GRU: stantonjw@gru.com
Mr. Gary P. Swanson, GRU: swansongp@gru.com
Ms. Regina Embry, GRU: embryrg@gru.com
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Ms. Heather Ceron, U.S. EPA Region 4: ceron.heather@epa.gov
Ms. Katy R. Forney, U.S. EPA Region 4: forney.kathleen@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.

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FACILITY DESCRIPTION

This existing facility consists primarily of a combined-cycle unit ("Combined-Cycle Unit No. 1") consisting of a combustion turbine and a heat recovery steam 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 20, 2013, 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 - 0010005-002-AC/PSD-FL-276

Air construction Permit Nos. 0010005-002-AC/PSD-FL-276 authorized the construction of the Combined-Cycle Unit No. 1 (CC1).

PROPOSED PROJECT

The applicant applied on August 26, 2013, 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. 0010005-002-AC/PSD-FL-276 (Project).

The approved requested revisions are included in this permit.

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

Facility ID No. 0010005	
E.U. ID No.	**E.U. Brief Description**
010	Combined-Cycle Unit No. 1

PROCESSING SCHEDULE AND RELATED DOCUMENTS

Minor Source Air Construction Permit Application received on August 26, 2013 (complete).

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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 Northeast District at: 78800 Baymeadows Way West, Suite 100, Jacksonville, FL 32256-7590, Phone: (904) 256-1700, Fax: (904) 256-1588.

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.]

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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: 0010005-002-AC/PSD-FL-276
Affected Emissions Units: Combined-Cycle Unit No. 1 (E.U. ID No. 010)

Specific Condition 21. (as reflected in Specific Conditions **B.18.** in the current valid Title V air operation permit No. 0010005-008-AV) is changed in its entirety to read as follows:

Specific Condition 21.

21. Excess Emissions Allowed. Excess emissions (as defined below) resulting from startup, shutdown, fuel switching, or malfunction shall be permitted provided that best operational practices are adhered to, and the duration of excess emissions shall be minimized. Excess emissions occurrences shall in no case exceed two hours in any 24-hour period, except as follows:
    a. During a "cold start-up" to combined cycle plant operation up to 8~~4~~ (eight~~four~~) hours of excess emissions are allowed. A cold start-up is defined as a startup that occurs ~~after a complete shutdown lasting at least 48 (forty eight) hours~~ when the Unit 8 steam turbine steam chest temperature is less than 250° F.
    b. During a "warm start-up" to combined cycle plant operation up to 7 (seven) hours of excess emissions are allowed. A warm start-up is defined as a startup that occurs when the Unit 8 steam turbine steam chest temperature is between 250° F and 510° F.
    c. During a "hot start-up" to combined cycle plant operation up to 4 (four) hours of excess emissions are allowed. A hot start-up is defined as a startup that occurs when the Unit 8 steam turbine steam chest temperature is greater than 510° F.
    ~~b~~d. During shutdowns from combined cycle operation, up to 3 (three) hours of excess emissions are allowed.
    ~~c~~e. Unless authorized by the Department.

    NOx CEM data shall be recorded and included in calculating the annual NOx emissions. These allowable excess emissions shall be excluded from the calculation of the 720-hour block average. Excess emissions are defined as 1 (one)-hour periods when the NOx emissions are above 9/42 ppmvd @ 15% oxygen while firing natural gas and fuel oil, respectively. [Rule 62-210.700(1)&(5), F.A.C.; G.E. Combined Cycle Startup Curves Data; and 0010005-002-AC & 0010005-010-AC, Specific Condition 21.]

    {Permitting note: The periods of excess emissions authorized are the only periods of operation that are allowed to be excluded from the calculation of the 720-hour block average. All other periods of emissions are considered part of normal operation and must be included in determining compliance with the 720-hour block average.}

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