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JEA
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Authorized Representative:
Michael J. Brost

Air Permit No. 0310045-49-AC/PSD-FL-265G
Permit Expires: June 30, 2017
Minor Air Construction Permit
Northside Generating Station, St. Johns River Power Park
"Federal Fiscal Year" to "Calendar Year" permit changes

PROJECT

This is the final air construction permit, which authorizes the change of "federal fiscal year" to "calendar year" in Section III, Specific Conditions 30 and 33 of Permit No. 0310045-003-AC/PSD-FL-265, which will be reflected in revisions to Section III, Specific Conditions H.11 and G.33 in permit no. 0310045-042-AV. The proposed work will be conducted at the existing Northside Generating Station/St. Johns River Power Park, which is an electric utility power plant categorized under Standard Industrial Classification No. 4911. The existing facility is in Duval County at 4377 Heckscher Drive in Jacksonville, Florida. The UTM coordinates are Zone 17, 446.90 kilometers (km) East and 3359.150 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.

David Lyle Read, P.E.
2017.02.21 12:06:26 -05'00'

For:

Syed Arif, P.E., Program 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.

Michael J. Brost, JEA (brosmj@jea.com)
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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

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FACILITY DESCRIPTION

The co-located Northside Generating Station (NGS) and St. Johns River Power Park (SJRPP) facilities are considered to be a single contiguous "facility" for air permitting purposes.

The Northside Generating Station portion of the combined facility consists of three boilers and four combustion turbines. NGS Boiler No. 3 is an existing, pre-NSPS boiler with a nominal rating of 564 MW and fired by natural gas, landfill gas, No. 6 residual fuel oil, and used oil. Emissions from the NGS Boiler No. 3 are uncontrolled. NGS CFB Boilers No. 1 and No. 2 are circulating fluidized bed (CFB) boilers fired by coal, coal coated with latex, petroleum coke, and landfill gas. Each NGS CFB boiler is equipped with a selective non-catalytic reduction (SNCR) system to reduce nitrogen oxides (NO_X) emissions, limestone injection to reduce sulfur dioxide (SO_2) emissions, fabric filter to reduce particulate matter (PM and PM_{10}) emissions, while maximizing combustion efficiency and minimizing NO_X formation to limit carbon monoxide (CO) and volatile organic compound (VOC) emissions. The four pre-NSPS distillate fuel oil-fired combustion turbines have a nominal rating of 52.5 megawatts (MW) each and are referred to as NGS Combustion Turbine (CT) Nos. 3, 4, 5 and 6. Emissions from the NGS CT Nos. 3, 4, 5 and 6, are controlled by firing low sulfur fuel oil.

The St. Johns River Power Park portion of the combined facility consists of two boilers. Boilers No. 1 and No. 2 are fossil fuel-fired steam generators (boilers) which are fired by pulverized coal, a blend of petroleum coke and coal, natural gas, new No. 2 distillate fuel oil (startup and low-load operation), and "on-specification" used oil. Emissions from these boilers are controlled by an electrostatic precipitator, a limestone scrubber, and low-NO_X burners. Permit No. 0310045-017-AC authorized the installation of selective catalytic reduction (SCR) systems and ammonia injection systems on the existing SJRPP Boiler Nos. 1 and 2; the Department did not require the installation of this equipment nor does the Department require its operation.

The SJRPP and NGS facilities also include coal, petroleum coke, limestone and fly ash handling activities, of which various control devices, control strategies, and control techniques are required. The material handling and storage operations process ash, limestone, coal, coal coated with latex, and petroleum coke to support the operation of CFB Boiler Nos. 1 and 2. Each materials handling and storage operation employs one or more control strategies to limit emissions of particulate matter to meet specific emission limitations and/or visible emissions limits. The control strategies include the use of best operating/design practices, total or partial enclosures, conditioned materials, wet suppression, water sprays, and dust collection systems.

Also, included in this permit are miscellaneous unregulated/insignificant emissions units and/or activities.

The existing facility consists of the following emissions units.

Facility ID No. 0310045

ID No.	Emission Unit Description
003	NGS: Boiler No. 3
006	NGS: Combustion Turbine No. 3
007	NGS: Combustion Turbine No. 4
008	NGS: Combustion Turbine No. 5
009	NGS: Combustion Turbine No. 6
016	SJRPP: Boiler No. 1
017	SJRPP: Boiler No. 2
022	SJRPP: Bottom Ash, Fly Ash and Gypsum Handling and Storage Operations
023	SJRPP: Fuel and Limestone Handling and Storage Operations
024	SJRPP: Cooling Towers (2)
026	NGS: Circulating Fluidized Bed Boiler No. 2
027	NGS: Circulating Fluidized Bed Boiler No. 1

028	NGS: Materials Handling and Storage Operations
029	NGS: Crusher House/Building Baghouse Exhaust (DC1)
031	NGS: Fuel Silos Dust Collectors (DC2 and DC3)
033	NGS: Limestone Dryer/Mills Building
034	NGS: Limestone Prep Building Dust Collectors
035	NGS: Limestone Silos Bin Vent Filters
036	NGS: Fly Ash Transport Blower Discharge
037	NGS: Fly Ash Silos Bin Vents
038	NGS: Bed Ash Silos Bin Vents
042	NGS: AQCS Pebble Lime Silo Bin Vent
51	NGS: Fly Ash Slurry Mix System Vents
052	NGS: Bed Ash Slurry Mix System Vents
053	NGS: Bed Ash Surge Hopper Bin Vents
055	NGS: Two Emergency Generators Supporting NGS Units 1 and 3 (Engines 1 & 2)
056	NGS: Two Black Start Engines Used Solely to Start up NGS Units 1 and 3 (Engines 3 & 4)
057	NGS: Two Emergency Fire Pumps (Engines 5 & 6)
058	SJRPP: Emergency Generator (Engine 7)
059	SJRPP: Emergency Fire Pump (Engine 8)

PROPOSED PROJECT

This permit revises No. 0310045-003-AC/PSD-FL-265. The words, “federal fiscal year,” will be changed to “calendar year” in Section III, Specific Conditions 30 and 33. These changes will be incorporated into Section III, Specific Conditions of G.33 and H.11 of Permit No. 003145-042-AV.

This project will modify the following emissions units.

Facility ID No. 0310045

ID No.	Emission Unit Description
026	NGS: Circulating Fluidized Bed Boiler No. 2
027	NGS: Circulating Fluidized Bed Boiler No. 1
028	Belt Conveyor No. 1
029	NGS: Crusher House Building Baghouse Exhaust
031	NGS: Fuel Silos Dust Collectors
033	NGS: Limestone Dryers/Mills Building
034	NGS: Limestone Prep Building Dust Collectors
035	NGS: Limestone Silos Bin Vent Filters
036	NGS: Fly Ash Transport Blower Discharge
037	NGS: Fly Ash Silos Bin Vents
038	NGS: Bed Ash Silos Bin Vents
042	NGS: AQCS Pebble Lime Silo
051	NGS: Fly Ash Slurry Mix System Vents
052	NGS: Bed Ash Slurry Mix System Vents
053	NGS: Bed Ash Surge Hopper Bin Vents

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 (CFR).
- The facility operates units subject to the National Emissions Standards of Hazardous Air Pollutants (NESHAP) of 40 CFR 63.

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 Northeast District at: 8800 Baymeadows Way West, Suite 100, Jacksonville, Florida 32256.

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.]

The following permit conditions are revised as indicated. All changes are emphasized with yellow highlight with deletions indicated by ~~strikethrough~~ text and additions denote by double-underline a text.

A. CFB Boiler Nos. 1 and 2

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
026	NGS: Circulating Fluidized Bed Boiler No. 2
027	NGS: Circulating Fluidized Bed Boiler No. 1

EU DESCRIPTION

These emissions units are two coal, coal coated with latex, petroleum coke, biomass, and landfill gas fired circulating fluidized bed (CFB) boilers. These boilers are connected to the existing steam turbines of the retired Boilers Nos. 1 and 2 (297.5 MW each) as part of the repowering project authorized under air construction permit, No. 0310045-003-AC/PSD-FL-265. A dual-flued 495-foot stack was added to the facility for Repowered Units 1 and 2, along with solid fuel delivery and storage facilities, limestone preparation and storage facilities (including three limestone dryers), a lime silo, aqueous ammonia storage, polishing scrubbers, precipitators or baghouses, ash removal and storage facilities, and an electrical substation. The stack diameter is 15 feet, exit temperature is 144 degrees F and the actual stack gas flow rate is 700,000 acfm.

JEA is allowed to burn 195 standard cubic feet per minute (scfm) of landfill gas in the CFB Boiler Nos. 1 and 2 (total). The 195 scfm of landfill gas is equivalent to a heat input of 6 MMBtu/hr. The landfill gas is being generated from the adjacent North Landfill (Facility ID No. 0310340) operated by the City of Jacksonville which is located directly north of the JEA NGS/SJRPP/ST power plant at 11405 Island Drive in Duval County. The maximum sulfur content, as H_2S, of the landfill gas is expected to be 48.2 parts per million volume dry (ppmvd). The natural gas presently being combusted in the CFB boilers typically contains 34 ppmvd of H_2S.

Each NGS CFB boiler is equipped with a selective non-catalytic reduction (SNCR) system to reduce NO_X emissions, limestone injection to reduce SO_2 emissions, fabric filter to reduce particulate matter (PM & PM_{10}) emissions, while maximizing combustion efficiency and minimizing NO_X formation to limit CO and VOC emissions.

CFB boiler Nos. 1 and 2 began operation in February 2002 and May 2002, respectively.

{Permitting Notes: The emissions units are regulated under Acid Rain, Phase II; NSPS - 40 CFR 60, Subpart Da, Standards of Performance for Electric Utility Steam Generating Units for Which Construction is Commenced After September 18, 1978, adopted and incorporated by reference in Rule 62-204.800(8)(b)2., F.A.C.; Rule 212.400(5), F.A.C., [PSD-FL-265; PSD-FL-265(A, B & C)]; and, Rule 62-212.400(6), F.A.C., Best Available Control Technology (BACT) Determination; and, Compliance Assurance Monitoring (CAM), adopted and incorporated in Rule 62-204.800, F.A.C.; and, Rule 62-296.470, F.A.C., Clean Air Interstate Rule (CAIR). The two NGS boilers are also subject to 40 CFR 63, Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants: Coal-and Oil-Fired Electric Utility Steam Generating Units.}

{Permitting Notes: Compliance with the Subpart UUUUU emissions limits shall be demonstrated pursuant to one of the available options specified in 40 CFR 63, Subpart UUUUU (see attached Appendix 40 CFR 63, Subpart UUUUU, National Emission Standards for Hazardous Air Pollutants: Coal- and Oil-Fired Electric Utility Steam Generating Units). The permittee shall also comply with the recordkeeping and reporting requirements specified Subpart UUUUU, as applicable. In the future, EU's 026 and 027at NGS may reclassify as low emitting EGU (LEE) units under MATS since their Hg emissions are significantly lower than the limits.}

COMPLIANCE WITH EXISTING PERMIT CONDITIONS

1. Existing Permits: This permit supplements all existing valid air construction permits. The permittee shall continue to comply with all applicable conditions from valid air construction permits (as incorporated into the current Title V air operation permit), except as modified by this permit. [Rule 62-4.070, F.A.C.]

REVISIONS TO PREVIOUS PERMITS

Permit Being Modified: Permit No. 0310045-003-AC/PSD-FL-265

Affected Emissions Units: Circulating Fluidized Bed Boiler Nos. 1 and 2 (E.U. I.D Nos. 026 and 027)

2. The affected Specific Condition is **33** from Section III of permit No. 0310045-003-AC/PSD-FL-265. The previously modified versions of these conditions are hereby revised and replaced as follows:

33. Particulate Matter:

(a) Initial compliance tests only shall be performed on Units 1 and 2 using EPA Methods 5, 5B, 8, 17, or 29 to determine compliance with the particulate matter (PM) limits in Condition 16(a) while firing petroleum coke, and an additional initial compliance test shall be performed on Unit 2 while firing coal. Quarterly tests shall be conducted for the first two years (eight quarters), then annually thereafter while firing petroleum coke. If petroleum coke has been fired for less than 100 hours during the previous quarter or less than 400 hours during the previous ~~federal fiscal year~~ calendar year (January 1 to December 31), the testing may be performed while firing coal.

(b) Initial and annual compliance tests shall be performed on Units 1 and 2 using EPA Methods 201 or 201A, to determine compliance with the particulate matter-10 microns or smaller (PM_{10}) limits in Condition 16(b) while firing coke, and an additional initial test shall be performed on Unit 2 while firing coal. If petroleum coke has been fired for less than 400 hours during the previous ~~federal fiscal year~~ calendar year (January 1 to December 31), the annual testing may be performed while firing coal.

(c) Compliance with the annual particulate matter (PM) emissions limit in Condition 16(c) shall be determined using the following formula. This formula shall be used for each fuel consumed by each of Units 1, 2 and 3, and the resulting PM emissions summed to obtain a 12-month total for Units 1, 2, and 3. [Applicant request.]

PM Emissions = (Fuel Usage[a]) x (Emission Factor[b]) x unit conversion factors

[a]The "Fuel Usage" shall be measured by calibrated fuel flow meters (±5 percent accuracy) and recorded daily when a unit is operated.

[b]An "Emissions Factor" of [(9.19 x weight percent sulfur content) + 3.22] pounds per thousand gallons (lbs/10^3 gal) shall be used for fuel oil burned in existing Units 1 and 3. The weight percent sulfur content shall be determined based on an analysis of a representative sample of the fuel oil being consumed. The analysis shall be performed using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition. An "Emissions Factor" of 5 pounds per million cubic feet (lb/MCF) shall be used for natural gas burned in existing Units 1 and 3. For Repowered Units 1 and 2, the "Emissions Factor" shall be based on particulate matter stack test results using EPA Methods 5, 5B, 8, 17, or 29 for the individual units, and shall apply to the quantities of fuel consumed in the individual units during the period immediately following the stack tests for the respective units until subsequent stack tests are completed.

(d) Initial compliance tests only shall be performed on the limestone dryers to determine compliance with the particulate matter limit in Condition 25 using EPA Method 5.

B. Materials, Limestone, and Ash Handling

This section of the permit addresses the following emissions units.

ID No.	Emission Unit Description
028	Belt Conveyor No. 1
028a	Vessel Hold, Vessel Unloader and Spillage Conveyor
028c	Transfer Building 1
028d	Transfer Building 5 and Limestone Loadout Chute
028g	Transfer Building 2
028h	Fuel Storage Domes A & B (includes fuel stackers/reclaimers)
028i	Transfer Building 3
028o	Plant Transfer Building
028p	Limestone Storage Pile and Limestone Reclaim Hoppers
028q	Transfer Building 4
028v	Transfer Building 6
029	NGS: Crusher House Building Baghouse Exhaust
031	NGS: Fuel Silos Dust Collectors
033	NGS: Limestone Dryers/Mills Building
034	NGS: Limestone Prep Building Dust Collectors
035	NGS: Limestone Silos Bin Vent Filters
036	NGS: Fly Ash Transport Blower Discharge
037	NGS: Fly Ash Silos Bin Vents
038	NGS: Bed Ash Silos Bin Vents
042	NGS: AQCS Pebble Lime Silo
051	NGS: Fly Ash Slurry Mix System Vents
052	NGS: Bed Ash Slurry Mix System Vents
053	NGS: Bed Ash Surge Hopper Bin Vents

EU DESCRIPTION

The material handling and storage operations process ash, limestone, coal, coal coated with latex, and petroleum coke to support the operation of CFB Boilers Nos. 1 and 2. Each materials handling and storage operation at NGS employs one or more control strategies to limit emissions of particulate matter to meet specific emission limitations and/or visible emissions limits. The control strategies include the use of best operating/design practices, total or partial enclosures, conditioned materials, wet suppression, water sprays, and dust collection systems. Except for the Belt Conveyor 1, all conveyors are enclosed. The fly and bed ash silos (E.U. ID No. 037 and E.U. ID No. 038) have the capability to unload into either trucks or rail cars.

{Permitting Notes: Emission Unit ID Nos. 029 & 031 are regulated under 40 CFR 60, Subpart Y, Standards of Performance for Coal Preparation Plants (coal handling at NGS, excluding open storage piles), adopted and incorporated by reference in Rule 62-204.800(8)(b)31., F.A.C. Emission Unit ID Nos. 033, 034 & 035 are regulated under Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants (limestone handling at NGS, except for open storage piles and truck unloading), adopted and incorporated by reference in Rule 62-204.800(8)(b)64., F.A.C.

Some of these emissions units are regulated under Rule 212.400(5), F.A.C., [PSD-FL-265; 0310045-007-AC/PSD-FL-265A; and, 0310045-012-AC/PSD-FL-265B]; Rule 62-212.400(6), F.A.C., BACT Determination;

and, Rule 62-296.711, F.A.C., Reasonable Available Control Technology (RACT) - Materials Handling, Sizing, Screening, Crushing and Grinding Operations.

COMPLIANCE WITH EXISTING PERMIT CONDITIONS

1. Existing Permits: This permit supplements all existing valid air construction permits. The permittee shall continue to comply with all applicable conditions from valid air construction permits (as incorporated into the current Title V air operation permit), except as modified by this permit. [Rule 62-4.070, F.A.C.]

REVISIONS TO PREVIOUS PERMITS

Permit Being Modified: Permit No. 0310045-003-AC/PSD-FL-265

Affected Emissions Units: NGS: Materials Handling and Storage Operations (E.U. ID No. 028), NGS: Crusher House Building Baghouse Exhaust (E.U. ID No. 029), NGS: Fuel Silos Dust Collectors (E.U. ID No. 031), NGS: Limestone Dryers/Mills Building (E.U. ID No. 033), NGS: Limestone Prep Building Dust Collectors (E.U. ID No. 034), NGS: Limestone Silos Bin Vent Filters (E.U. ID No. 035), NGS: Fly Ash Transport Blower Discharge (E.U. ID No. 036), NGS: Fly Ash Silos Bin Vents (E.U. ID No. 037), NGS: Bed Ash Silos Bin Vents (E.U. ID No. 038), NGS: AQCS Pebble Lime Silo (E.U. ID No. 042), NGS: Fly Ash Slurry Mix System Vents (E.U. ID No. 051), NGS: Bed Ash Slurry Mix System Vents (E.U. ID No. 052), NGS: Bed Ash Surge Hopper Bin Vents (E.U. ID No. 053)

2. The affected Specific Condition is **30** from Section III of permit No. 0310045-003-AC/PSD-FL-265. The previously modified versions of these conditions are hereby revised and replaced as follows:
   30. Visible Emissions:

   (a) Compliance with the visible emissions limit in Condition 13 shall be demonstrated with continuous opacity monitors installed, certified, operated, and maintained in accordance with 40 CFR Part 75, based on 6-minute block averages and excluding periods of startup, shutdown, and malfunction.

   (b) Compliance with the visible emissions limit in Condition 25 for the limestone dryers shall be demonstrated using EPA Method 9 initially and once within every five years thereafter. The limestone dryers shall fire fuel oil during the initial compliance tests. In subsequent years, the testing shall be conducted annually if fuel oil has been fired for more than 400 hours during the previous ~~federal fiscal year~~ calendar year (January 1 to December 31); otherwise, the testing shall be conducted once within every five years, even if testing is conducted while firing natural gas.